```
# ##############################################################
#                Library Version 10_00
# ##############################################################
# ##############################################################
# Vendor:         actel
# ##############################################################
# ##############################################################
# Tool version:       Designer 9.0
# ##############################################################
# Family:                 3200dx
# Device:                    a32100dx
#                           plcc84
#                           cqfp84
#                           pqfp160
#                           pqfp208
# Device:                    a32100dxv

#                           plcc84

# Device:                    a32140dx

#                           plcc84

#                           pqfp160

#                           tqfp176

#                           pqfp208

#                           cqfp256

# Device:                    a32140dxv

#                           plcc84

#                           tqfp176

# Device:                    a32200dx

#                           pqfp208

#                           rqfp208

#                           cqfp208

#                           rqfp240

#                           cqfp256

# Device:                    a32200dxv

#                           pqfp208

#                           rqfp240

# Device:                    a32300dx

#                           rqfp208

#                           rqfp240

#                           cqfp256

# Device:                    a32300dxv

#                           rqfp208

#                           rqfp240

# Device:                    a3265dx

#                           plcc84

#                           pqfp100

#                           pqfp160
```

```
#                    tqfp176
# Device:             a3265dxv
#                    plcc84
#                    tqfp176
# Family:           40mx
# Device:             a40mx02
#                    plcc44
#                    plcc68
#                    vqfp80
#                    pqfp100
# Device:             a40mx04
#                    plcc44
#                    plcc68
#                    vqfp80
#                    plcc84
#                    pqfp100
# Family:           42mx
# Device:             a42mx09
#                    plcc84
#                    pqfp100
#                    vqfp100
#                    pqfp160
#                    tqfp176
# Device:             a42mx16
#                    plcc84
#                    pqfp100
#                    vqfp100
#                    pqfp160
#                    tqfp176
#                    pqfp208
# Device:             a42mx24
#                    plcc84
#                    pqfp160
#                    tqfp176
#                    pqfp208
# Device:             a42mx36
#                    cqfp208
#                    pqfp208
```

```
#                    pqfp240
#                    cqfp256
#                    bga272
# Family:            500k
# Device:              a500k050
#                    fbga144
#                    pqfp208
#                    bga272
# Device:              a500k130
#                    fbga144
#                    pqfp208
#                    fbga256
#                    bga272
#                    bga456
# Device:              a500k180
#                    pqfp208
#                    fbga256
#                    bga456
# Device:              a500k270
#                    pqfp208
#                    fbga256
#                    bga456
#                    fbga676
# Family:            54sx
# Device:              a54sx08
#                    plcc84
#                    vqfp100
#                    fbga144
#                    tqfp144
#                    tqfp176
#                    pqfp208
# Device:              a54sx16
#                    vqfp100
#                    tqfp176
#                    cqfp208
#                    pqfp208
#                    cqfp256
# Device:              a54sx16p
```

```
#                    vqfp100
#                    tqfp144
#                    tqfp176
#                    pqfp208
# Device:             a54sx32
#                    tqfp144
#                    tqfp176
#                    cqfp208
#                    pqfp208
#                    cqfp256
#                    bga313
#                    bga329
# Device:             rt54sx16
#                    cqfp208
#                    cqfp256
# Device:             rt54sx32
#                    cqfp208
#                    cqfp256
# Family:           54sxa
# Device:             a54sx08a
#                    tqfp100
#                    fbga144
#                    tqfp144
#                    pqfp208
# Device:             a54sx16a
#                    tqfp100
#                    fbga144
#                    tqfp144
#                    pqfp208
#                    fbga256
# Device:             a54sx32a
#                    cqfp84
#                    tqfp144
#                    tqfp176
#                    cqfp208
#                    cqfp256
#                    pqfp208
#                    tqfp100
```

```
#                    fbga144
#                    fbga256
#                    bga329
#                    54sxa_fbga484
# Device:             a54sx72a
#                    cqfp208
#                    cqfp256
#                    pqfp208
#                    fbga256
#                    54sxa_fbga484
# Device:             rt54sx32s
#                    cqfp84
#                    cqfp208
#                    cqfp256
#                    cclg256
# Device:             rt54sx72s
#                    cqfp208
#                    cqfp256
#                    ccga624
# Family:           act1
# Device:             a1010b
#                    plcc44
#                    plcc68
#                    vqfp80
#                    cpga84
#                    pqfp100
# Device:             a1020b
#                    plcc44
#                    plcc68
#                    vqfp80
#                    plcc84
#                    cpga84
#                    cqfp84
#                    pqfp100
# Device:             a10v10b
#                    plcc68
#                    vqfp80
# Device:             a10v20b
```

```
#                    plcc68
#                    vqfp80
#                    plcc84
# Device:             rh1020
#                    cqfp84
# Device:             rt1020
#                    cqfp84
# Family:            act2
# Device:             a1225a
#                    plcc84
#                    pqfp100
# Device:             a1225xl
#                    plcc84
#                    cpga100
#                    pqfp100
#                    vqfp100
# Device:             a1225xlv
#                    plcc84
#                    vqfp100
# Device:             a1240a
#                    plcc84
#                    cpga132
#                    pqfp144
#                    tqfp176
# Device:             a1240xl
#                    plcc84
#                    cpga132
#                    pqfp100
#                    pqfp144
#                    tqfp176
# Device:             a1240xlv
#                    plcc84
#                    tqfp176
# Device:             a1280a
#                    plcc84
#                    pqfp160
#                    cqfp172
#                    cpga176
```

```
# Device:          a1280xl
#                  plcc84
#                  pqfp160
#                  cqfp172
#                  cpga176
#                  tqfp176
#                  pqfp208
# Device:          a1280xlv
#                  plcc84
#                  tqfp176
# Device:          rh1280
#                  cqfp172
# Device:          rp1280a
#                  cqfp172
# Device:          rt1280a
#                  cqfp172
#                  cpga176
# Family:        act3
# Device:          a14100a
#                  rqfp208
#                  cqfp256
#                  cpga257
#                  bga313
# Device:          a1415a
#                  plcc84
#                  pqfp100
#                  vqfp100
# Device:          a1425a
#                  plcc84
#                  pqfp100
#                  vqfp100
#                  cqfp132
#                  pqfp160
# Device:          a1440a
#                  plcc84
#                  vqfp100
#                  pqfp160
#                  cpga175
```

```
#                    tqfp176
# Device:             a1460a
#                    pqfp160
#                    tqfp176
#                    cqfp196
#                    cpga207
#                    pqfp208
# Device:             a14v100a
#                    rqfp208
#                    bga313
# Device:             a14v15a
#                    plcc84
#                    vqfp100
# Device:             a14v25a
#                    plcc84
#                    vqfp100
#                    pqfp160
# Device:             a14v40a
#                    plcc84
#                    vqfp100
#                    pqfp160
#                    tqfp176
# Device:             a14v60a
#                    pqfp160
#                    tqfp176
#                    pqfp208
# Device:             rt14100a
#                    cqfp256
# Device:             rt1425a
#                    cqfp132
# Device:             rt1460a
#                    cqfp196
# Family:           axcelerator
# Device:             ax1000
#                    cqfp352
#                    fbga484
#                    ccga624
#                    fbga676
```

```
#                    bga729
#                    fbga896
# Device:             ax125
#                    cs180
#                    fbga256
#                    fbga324
# Device:             ax2000
#                    cqfp256
#                    cqfp352
#                    ccga624
#                    fbga896
#                    fbga1152
# Device:             ax250
#                    pqfp208
#                    cqfp208
#                    fbga256
#                    cqfp352
#                    fbga484
# Device:             ax500
#                    pqfp208
#                    cqfp208
#                    cqfp352
#                    fbga484
#                    fbga676
# Device:             rtax1000s
#                    cqfp352
#                    ccga624
# Device:             rtax2000d
#                    ccga1272
# Device:             rtax2000s
#                    cqfp256
#                    cqfp352
#                    ccga624
#                    ccga1152
# Device:             rtax250s
#                    cqfp208
#                    cqfp352
#                    ccga624
```

```
# Device:          rtax4000d
#                  cqfp352
#                  ccga1272
# Device:          rtax4000s
#                  cqfp352
#                  ccga1272
# Family:        ex
# Device:          ex128
#                  tqfp64
#                  tqfp100
#                  cs49
#                  cs128
# Device:          ex256
#                  tqfp100
#                  cs128
#                  cs180
# Device:          ex64
#                  tqfp64
#                  tqfp100
#                  cs49
#                  cs128
# Family:        fusion
# Device:          afs090
#                  qfn108
#                  qfn180
#                  fbga256
# Device:          afs1500
#                  fbga256
#                  fbga484
#                  fbga676
# Device:          afs250
#                  qfn180
#                  pqfp208
#                  fbga256
# Device:          afs600
#                  pqfp208
#                  fbga256
#                  fbga484
```

```
# Device:          m1afs1500
#                  fbga256
#                  fbga484
#                  fbga676
# Device:          m1afs250
#                  qfn180
#                  pqfp208
#                  fbga256
# Device:          m1afs600
#                  pqfp208
#                  fbga256
#                  fbga484
# Device:          m7afs600
#                  pqfp208
#                  fbga256
#                  fbga484
# Device:          p1afs1500
#                  fbga256
#                  fbga484
# Device:          p1afs600
#                  fbga256
#                  fbga484
# Device:          u1afs250
#                  fbga256
# Device:          u1afs600
#                  fbga256
# Family:        igloo
# Device:          agl015v2
#                  qfn68
# Device:          agl015v5
#                  qfn68
# Device:          agl030v2
#                  qfn48
#                  qfn68
#                  cs81
#                  uc81
#                  vqfp100
#                  qfn132
```

```
# Device:          agl030v5
#                  qfn48
#                  qfn68
#                  cs81
#                  uc81
#                  vqfp100
#                  qfn132
# Device:          agl060v2
#                  vqfp100
#                  cs121
#                  qfn132
# Device:          agl060v5
#                  vqfp100
#                  cs121
#                  qfn132
# Device:          agl1000v2
#                  fbga144
#                  fbga256
#                  cs281
#                  fbga484
# Device:          agl1000v5
#                  fbga144
#                  fbga256
#                  cs281
#                  fbga484
# Device:          agl125v2
#                  vqfp100
#                  qfn132
#                  fbga144
#                  cs196
# Device:          agl125v5
#                  vqfp100
#                  qfn132
#                  fbga144
#                  cs196
# Device:          agl250v2
#                  vqfp100
#                  fbga144
```

```
#                    cs196
#                    cs284
# Device:             agl250v5
#                    vqfp100
#                    fbga144
#                    cs196
#                    cs284
# Device:             agl400v2
#                    fbga144
#                    cs196
#                    fbga256
#                    cs284
#                    fbga484
# Device:             agl400v5
#                    fbga144
#                    cs196
#                    fbga256
#                    cs284
#                    fbga484
# Device:             agl600v2
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             agl600v5
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             agln010v2
#                    uc36
#                    qfn48
# Device:             agln010v5
#                    uc36
#                    qfn48
# Device:             agln015v2
#                    qfn68
# Device:             agln015v5
```

```
#                    qfn68
# Device:             agln020v2
#                    qfn68
#                    cs81
#                    uc81
# Device:             agln020v5
#                    qfn68
#                    cs81
#                    uc81
# Device:             agln030v2z
#                    qfn48
#                    qfn68
#                    cs81
#                    uc81
#                    vqfp100
# Device:             agln030v5z
#                    qfn48
#                    qfn68
#                    cs81
#                    uc81
#                    vqfp100
# Device:             agln060v2
#                    cs81
#                    vqfp100
# Device:             agln060v2z
#                    cs81
#                    vqfp100
# Device:             agln060v5
#                    cs81
#                    vqfp100
# Device:             agln060v5z
#                    cs81
#                    vqfp100
# Device:             agln125v2z
#                    cs81
#                    vqfp100
# Device:             agln125v5z
#                    cs81
```

```
#                    vqfp100
# Device:             agln250v2
#                    cs81
#                    vqfp100
# Device:             agln250v2z
#                    cs81
#                    vqfp100
# Device:             agln250v5
#                    cs81
#                    vqfp100
# Device:             agln250v5z
#                    cs81
#                    vqfp100
# Device:             m1agl1000v2
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             m1agl1000v5
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             m1agl250v2
#                    vqfp100
#                    fbga144
# Device:             m1agl250v5
#                    vqfp100
#                    fbga144
# Device:             m1agl600v2
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             m1agl600v5
#                    fbga144
#                    fbga256
#                    cs281
```

```
#                    fbga484
# Family:          igloo+
# Device:            aglp030v2
#                    vqfp128
#                    cs201
#                    cs289
# Device:            aglp030v5
#                    vqfp128
#                    cs201
#                    cs289
# Device:            aglp060v2
#                    vqfp176
#                    cs201
#                    cs289
# Device:            aglp060v5
#                    vqfp176
#                    cs201
#                    cs289
# Device:            aglp125v2
#                    cs281
#                    cs289
# Device:            aglp125v5
#                    cs281
#                    cs289
# Family:          iglooe
# Device:            agle3000v2
#                    fbga484
#                    fbga896
# Device:            agle3000v5
#                    fbga484
#                    fbga896
# Device:            agle600v2
#                    fbga256
#                    fbga484
# Device:            agle600v5
#                    fbga256
#                    fbga484
# Device:            m1agle3000v2
```

```
#                    fbga484
#                    fbga896
# Device:            m1agle3000v5
#                    fbga484
#                    fbga896
# Family:            pa
# Device:            apa075
#                    tqfp100
#                    tqfp144
#                    fbga144
#                    pqfp208
# Device:            apa1000
#                    pqfp208
#                    cqfp208
#                    cqfp352
#                    bga456
#                    ccga624
#                    fbga896
#                    fbga1152
# Device:            apa150
#                    tqfp100
#                    fbga144
#                    pqfp208
#                    fbga256
#                    bga456
# Device:            apa300
#                    fbga144
#                    pqfp208
#                    cqfp208
#                    fbga256
#                    cqfp352
#                    bga456
# Device:            apa450
#                    fbga144
#                    pqfp208
#                    fbga256
#                    bga456
#                    fbga484
```

```
# Device:          apa600
#                  pqfp208
#                  cqfp208
#                  fbga256
#                  cqfp352
#                  bga456
#                  fbga484
#                  ccga624
#                  fbga676
# Device:          apa750
#                  pqfp208
#                  bga456
#                  fbga676
#                  fbga896
# Family:        proasic3
# Device:          a3p015
#                  qfn68
# Device:          a3p030
#                  qfn48
#                  qfn68
#                  vqfp100
#                  qfn132
# Device:          a3p060
#                  vqfp100
#                  cs121
#                  qfn132
#                  fbga144
#                  tqfp144
# Device:          a3p1000
#                  fbga144
#                  pqfp208
#                  fbga256
#                  fbga484
# Device:          a3p125
#                  vqfp100
#                  qfn132
#                  fbga144
#                  tqfp144
```

```
#                    pqfp208
# Device:             a3p250
#                    vqfp100
#                    qfn132
#                    fbga144
#                    pqfp208
#                    fbga256
# Device:             a3p400
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             a3p600
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             a3pn010
#                    qfn48
# Device:             a3pn015
#                    qfn68
# Device:             a3pn020
#                    qfn68
# Device:             a3pn030z
#                    qfn48
#                    qfn68
#                    vqfp100
# Device:             a3pn060
#                    vqfp100
# Device:             a3pn060z
#                    vqfp100
# Device:             a3pn125z
#                    vqfp100
# Device:             a3pn250
#                    vqfp100
# Device:             a3pn250z
#                    vqfp100
# Device:             m1a3p1000
```

```
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             m1a3p250
#                    vqfp100
#                    fbga144
#                    pqfp208
# Device:             m1a3p400
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             m1a3p600
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             m7a3p1000
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Family:           proasic3e
# Device:             a3pe1500
#                    pqfp208
#                    fbga484
#                    fbga676
# Device:             a3pe3000
#                    pqfp208
#                    fbga324
#                    fbga484
#                    fbga896
# Device:             a3pe600
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             m1a3pe1500
```

```
#                    pqfp208
#                    fbga484
#                    fbga676
# Device:            m1a3pe3000
#                    pqfp208
#                    fbga324
#                    fbga484
#                    fbga896
# Family:            proasic3l
# Device:            a3p1000l
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:            a3p250l
#                    vqfp100
#                    fbga144
#                    pqfp208
#                    fbga256
# Device:            a3p600l
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:            a3pe3000l
#                    pqfp208
#                    fbga324
#                    fbga484
#                    fbga896
# Device:            a3pe600l
#                    fbga484
# Device:            m1a3p1000l
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:            m1a3p600l
#                    fbga144
```

```
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:            m1a3pe3000l
#                    pqfp208
#                    fbga324
#                    fbga484
#                    fbga896
# Device:            rt3pe3000l
#                    ccga484
#                    lga484
#                    ccga896
#                    lga896
# Device:            rt3pe600l
#                    ccga484
#                    lga484
# Family:            smartfusion
# Device:            a2f200m3f
#                    fbga256
#                    fbga484
# Device:            a2f500m3g
#                    fbga256
#                    fbga484
# ##############################################################
# Tool version:      Designer 8.6
# ##############################################################
# Family:            3200dx
# Device:            a32100dx
#                    plcc84
#                    cqfp84
#                    pqfp160
#                    pqfp208
# Device:            a32100dxv
#                    plcc84
# Device:            a32140dx
#                    plcc84
#                    pqfp160
#                    tqfp176
```

```
#                    pqfp208
#                    cqfp256
# Device:             a32140dxv
#                    plcc84
#                    tqfp176
# Device:             a32200dx
#                    pqfp208
#                    rqfp208
#                    cqfp208
#                    rqfp240
#                    cqfp256
# Device:             a32200dxv
#                    pqfp208
#                    rqfp240
# Device:             a32300dx
#                    rqfp208
#                    rqfp240
#                    cqfp256
# Device:             a32300dxv
#                    rqfp208
#                    rqfp240
# Device:             a3265dx
#                    plcc84
#                    pqfp100
#                    pqfp160
#                    tqfp176
# Device:             a3265dxv
#                    plcc84
#                    tqfp176
# Family:           40mx
# Device:             a40mx02
#                    plcc44
#                    plcc68
#                    vqfp80
#                    pqfp100
# Device:             a40mx04
#                    plcc44
#                    plcc68
```

```
#                    vqfp80
#                    plcc84
#                    pqfp100
# Family:          42mx
# Device:            a42mx09
#                    plcc84
#                    pqfp100
#                    vqfp100
#                    pqfp160
#                    tqfp176
# Device:            a42mx16
#                    plcc84
#                    pqfp100
#                    vqfp100
#                    pqfp160
#                    tqfp176
#                    pqfp208
# Device:            a42mx24
#                    plcc84
#                    pqfp160
#                    tqfp176
#                    pqfp208
# Device:            a42mx36
#                    cqfp208
#                    pqfp208
#                    pqfp240
#                    cqfp256
#                    bga272
# Family:          500k
# Device:            a500k050
#                    fbga144
#                    pqfp208
#                    bga272
# Device:            a500k130
#                    fbga144
#                    pqfp208
#                    fbga256
#                    bga272
```

```
#                    bga456
# Device:             a500k180
#                    pqfp208
#                    fbga256
#                    bga456
# Device:             a500k270
#                    pqfp208
#                    fbga256
#                    bga456
#                    fbga676
# Family:            54sx
# Device:             a54sx08
#                    plcc84
#                    vqfp100
#                    fbga144
#                    tqfp144
#                    tqfp176
#                    pqfp208
# Device:             a54sx16
#                    vqfp100
#                    tqfp176
#                    cqfp208
#                    pqfp208
#                    cqfp256
# Device:             a54sx16p
#                    vqfp100
#                    tqfp144
#                    tqfp176
#                    pqfp208
# Device:             a54sx32
#                    tqfp144
#                    tqfp176
#                    cqfp208
#                    pqfp208
#                    cqfp256
#                    bga313
#                    bga329
# Device:             rt54sx16
```

```
#                    cqfp208
#                    cqfp256
# Device:            rt54sx32
#                    cqfp208
#                    cqfp256
# Family:            54sxa
# Device:            a54sx08a
#                    tqfp100
#                    fbga144
#                    tqfp144
#                    pqfp208
# Device:            a54sx16a
#                    tqfp100
#                    fbga144
#                    tqfp144
#                    pqfp208
#                    fbga256
# Device:            a54sx32a
#                    cqfp84
#                    tqfp144
#                    tqfp176
#                    cqfp208
#                    cqfp256
#                    pqfp208
#                    tqfp100
#                    fbga144
#                    fbga256
#                    bga329
#                    54sxa_fbga484
# Device:            a54sx72a
#                    cqfp208
#                    cqfp256
#                    pqfp208
#                    fbga256
#                    54sxa_fbga484
# Device:            rt54sx32s
#                    cqfp84
#                    cqfp208
```

```
#                    cqfp256
#                    cclg256
# Device:             rt54sx72s
#                    cqfp208
#                    cqfp256
#                    ccga624
# Family:           act1
# Device:             a1010b
#                    plcc44
#                    plcc68
#                    vqfp80
#                    cpga84
#                    pqfp100
# Device:             a1020b
#                    plcc44
#                    plcc68
#                    vqfp80
#                    plcc84
#                    cpga84
#                    cqfp84
#                    pqfp100
# Device:             a10v10b
#                    plcc68
#                    vqfp80
# Device:             a10v20b
#                    plcc68
#                    vqfp80
#                    plcc84
# Device:             rh1020
#                    cqfp84
# Device:             rt1020
#                    cqfp84
# Family:           act2
# Device:             a1225a
#                    plcc84
#                    pqfp100
# Device:             a1225xl
#                    plcc84
```

```
#                    cpga100
#                    pqfp100
#                    vqfp100
# Device:             a1225xlv
#                    plcc84
#                    vqfp100
# Device:             a1240a
#                    plcc84
#                    cpga132
#                    pqfp144
#                    tqfp176
# Device:             a1240xl
#                    plcc84
#                    cpga132
#                    pqfp100
#                    pqfp144
#                    tqfp176
# Device:             a1240xlv
#                    plcc84
#                    tqfp176
# Device:             a1280a
#                    plcc84
#                    pqfp160
#                    cqfp172
#                    cpga176
# Device:             a1280xl
#                    plcc84
#                    pqfp160
#                    cqfp172
#                    cpga176
#                    tqfp176
#                    pqfp208
# Device:             a1280xlv
#                    plcc84
#                    tqfp176
# Device:             rh1280
#                    cqfp172
# Device:             rp1280a
```

```
#                    cqfp172
# Device:            rt1280a
#                    cqfp172
#                    cpga176
# Family:            act3
# Device:            a14100a
#                    rqfp208
#                    cqfp256
#                    cpga257
#                    bga313
# Device:            a1415a
#                    plcc84
#                    pqfp100
#                    vqfp100
# Device:            a1425a
#                    plcc84
#                    pqfp100
#                    vqfp100
#                    cqfp132
#                    pqfp160
# Device:            a1440a
#                    plcc84
#                    vqfp100
#                    pqfp160
#                    cpga175
#                    tqfp176
# Device:            a1460a
#                    pqfp160
#                    tqfp176
#                    cqfp196
#                    cpga207
#                    pqfp208
# Device:            a14v100a
#                    rqfp208
#                    bga313
# Device:            a14v15a
#                    plcc84
#                    vqfp100
```

```
# Device:          a14v25a
#                  plcc84
#                  vqfp100
#                  pqfp160
# Device:          a14v40a
#                  plcc84
#                  vqfp100
#                  pqfp160
#                  tqfp176
# Device:          a14v60a
#                  pqfp160
#                  tqfp176
#                  pqfp208
# Device:          rt14100a
#                  cqfp256
# Device:          rt1425a
#                  cqfp132
# Device:          rt1460a
#                  cqfp196
# Family:        axcelerator
# Device:          ax1000
#                  cqfp352
#                  fbga484
#                  ccga624
#                  fbga676
#                  bga729
#                  fbga896
# Device:          ax125
#                  cs180
#                  fbga256
#                  fbga324
# Device:          ax2000
#                  cqfp256
#                  cqfp352
#                  ccga624
#                  fbga896
#                  fbga1152
# Device:          ax250
```

```
#                    pqfp208
#                    cqfp208
#                    fbga256
#                    cqfp352
#                    fbga484
# Device:             ax500
#                    pqfp208
#                    cqfp208
#                    cqfp352
#                    fbga484
#                    fbga676
# Device:             rtax1000s
#                    cqfp352
#                    ccga624
# Device:             rtax2000d
#                    ccga1272
# Device:             rtax2000s
#                    cqfp256
#                    cqfp352
#                    ccga624
#                    ccga1152
# Device:             rtax250s
#                    cqfp208
#                    cqfp352
#                    ccga624
# Device:             rtax4000d
#                    cqfp352
#                    ccga1272
# Device:             rtax4000s
#                    cqfp352
#                    ccga1272
# Family:           ex
# Device:             ex128
#                    tqfp64
#                    tqfp100
#                    cs49
#                    cs128
# Device:             ex256
```

```
#                    tqfp100
#                    cs128
#                    cs180
# Device:             ex64
#                    tqfp64
#                    tqfp100
#                    cs49
#                    cs128
# Family:           fusion
# Device:             afs090
#                    qfn108
#                    qfn180
#                    fbga256
# Device:             afs1500
#                    fbga256
#                    fbga484
#                    fbga676
# Device:             afs250
#                    qfn180
#                    pqfp208
#                    fbga256
# Device:             afs600
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             m1afs1500
#                    fbga256
#                    fbga484
#                    fbga676
# Device:             m1afs250
#                    qfn180
#                    pqfp208
#                    fbga256
# Device:             m1afs600
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             m7afs600
```

```
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:            p1afs1500
#                    fbga256
#                    fbga484
# Device:            p1afs600
#                    fbga256
#                    fbga484
# Device:            u1afs250
#                    fbga256
# Device:            u1afs600
#                    fbga256
# Family:            igloo
# Device:            agl015v2
#                    qfn68
# Device:            agl015v5
#                    qfn68
# Device:            agl030v2
#                    qfn48
#                    qfn68
#                    cs81
#                    uc81
#                    vqfp100
#                    qfn132
# Device:            agl030v5
#                    qfn48
#                    qfn68
#                    cs81
#                    uc81
#                    vqfp100
#                    qfn132
# Device:            agl060v2
#                    vqfp100
#                    cs121
#                    qfn132
# Device:            agl060v5
#                    vqfp100
```

```
#                    cs121
#                    qfn132
# Device:             agl1000v2
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             agl1000v5
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             agl125v2
#                    vqfp100
#                    qfn132
#                    fbga144
#                    cs196
# Device:             agl125v5
#                    vqfp100
#                    qfn132
#                    fbga144
#                    cs196
# Device:             agl250v2
#                    vqfp100
#                    fbga144
#                    cs196
# Device:             agl250v5
#                    vqfp100
#                    fbga144
#                    cs196
# Device:             agl400v2
#                    fbga144
#                    cs196
#                    fbga256
#                    fbga484
# Device:             agl400v5
#                    fbga144
#                    cs196
```

```
#                    fbga256
#                    fbga484
# Device:             agl600v2
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             agl600v5
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             agln010v2
#                    uc36
#                    qfn48
# Device:             agln010v5
#                    uc36
#                    qfn48
# Device:             agln015v2
#                    qfn68
# Device:             agln015v5
#                    qfn68
# Device:             agln020v2
#                    qfn68
#                    cs81
#                    uc81
# Device:             agln020v5
#                    qfn68
#                    cs81
#                    uc81
# Device:             agln030v2z
#                    qfn48
#                    qfn68
#                    cs81
#                    uc81
#                    vqfp100
# Device:             agln030v5z
#                    qfn48
```

```
#                    qfn68
#                    cs81
#                    uc81
#                    vqfp100
# Device:             agln060v2z
#                    cs81
#                    vqfp100
# Device:             agln060v5z
#                    cs81
#                    vqfp100
# Device:             agln125v2z
#                    cs81
#                    vqfp100
# Device:             agln125v5z
#                    cs81
#                    vqfp100
# Device:             agln250v2
#                    cs81
#                    vqfp100
# Device:             agln250v2z
#                    cs81
#                    vqfp100
# Device:             agln250v5
#                    cs81
#                    vqfp100
# Device:             agln250v5z
#                    cs81
#                    vqfp100
# Device:             m1agl1000v2
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
# Device:             m1agl1000v5
#                    fbga144
#                    fbga256
#                    cs281
#                    fbga484
```

```
# Device:          m1agl250v2
#                  vqfp100
#                  fbga144
# Device:          m1agl250v5
#                  vqfp100
#                  fbga144
# Device:          m1agl600v2
#                  fbga144
#                  fbga256
#                  cs281
#                  fbga484
# Device:          m1agl600v5
#                  fbga144
#                  fbga256
#                  cs281
#                  fbga484
# Family:          igloo+
# Device:          aglp030v2
#                  vqfp128
#                  cs201
#                  cs289
# Device:          aglp030v5
#                  vqfp128
#                  cs201
#                  cs289
# Device:          aglp060v2
#                  vqfp176
#                  cs201
#                  cs289
# Device:          aglp060v5
#                  vqfp176
#                  cs201
#                  cs289
# Device:          aglp125v2
#                  cs281
#                  cs289
# Device:          aglp125v5
#                  cs281
```

```
#                    cs289
# Family:          iglooe
# Device:            agle3000v2
#                    fbga484
#                    fbga896
# Device:            agle3000v5
#                    fbga484
#                    fbga896
# Device:            agle600v2
#                    fbga256
#                    fbga484
# Device:            agle600v5
#                    fbga256
#                    fbga484
# Device:            m1agle3000v2
#                    fbga484
#                    fbga896
# Device:            m1agle3000v5
#                    fbga484
#                    fbga896
# Family:          pa
# Device:            apa075
#                    tqfp100
#                    tqfp144
#                    fbga144
#                    pqfp208
# Device:            apa1000
#                    pqfp208
#                    cqfp208
#                    cqfp352
#                    bga456
#                    ccga624
#                    fbga896
#                    fbga1152
# Device:            apa150
#                    tqfp100
#                    fbga144
#                    pqfp208
```

```
#                    fbga256
#                    bga456
# Device:             apa300
#                    fbga144
#                    pqfp208
#                    cqfp208
#                    fbga256
#                    cqfp352
#                    bga456
# Device:             apa450
#                    fbga144
#                    pqfp208
#                    fbga256
#                    bga456
#                    fbga484
# Device:             apa600
#                    pqfp208
#                    cqfp208
#                    fbga256
#                    cqfp352
#                    bga456
#                    fbga484
#                    ccga624
#                    fbga676
# Device:             apa750
#                    pqfp208
#                    bga456
#                    fbga676
#                    fbga896
# Family:           proasic3
# Device:             a3p015
#                    qfn68
# Device:             a3p030
#                    qfn48
#                    qfn68
#                    vqfp100
#                    qfn132
# Device:             a3p060
```

```
#                    vqfp100
#                    cs121
#                    qfn132
#                    fbga144
#                    tqfp144
# Device:             a3p1000
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             a3p125
#                    vqfp100
#                    qfn132
#                    fbga144
#                    tqfp144
#                    pqfp208
# Device:             a3p250
#                    vqfp100
#                    qfn132
#                    fbga144
#                    pqfp208
#                    fbga256
# Device:             a3p400
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             a3p600
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             a3pn010
#                    qfn48
# Device:             a3pn015
#                    qfn68
# Device:             a3pn020
#                    qfn68
```

```
# Device:          a3pn030z
#                  qfn48
#                  qfn68
#                  vqfp100
# Device:          a3pn060z
#                  vqfp100
# Device:          a3pn125z
#                  vqfp100
# Device:          a3pn250
#                  vqfp100
# Device:          a3pn250z
#                  vqfp100
# Device:          m1a3p1000
#                  fbga144
#                  pqfp208
#                  fbga256
#                  fbga484
# Device:          m1a3p250
#                  vqfp100
#                  fbga144
#                  pqfp208
# Device:          m1a3p400
#                  fbga144
#                  pqfp208
#                  fbga256
#                  fbga484
# Device:          m1a3p600
#                  fbga144
#                  pqfp208
#                  fbga256
#                  fbga484
# Device:          m7a3p1000
#                  fbga144
#                  pqfp208
#                  fbga256
#                  fbga484
# Family:        proasic3e
# Device:          a3pe1500
```

```
#                    pqfp208
#                    fbga484
#                    fbga676
# Device:             a3pe3000
#                    pqfp208
#                    fbga324
#                    fbga484
#                    fbga896
# Device:             a3pe600
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             m1a3pe1500
#                    pqfp208
#                    fbga484
#                    fbga676
# Device:             m1a3pe3000
#                    pqfp208
#                    fbga324
#                    fbga484
#                    fbga896
# Family:           proasic3l
# Device:             a3p1000l
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             a3p250l
#                    vqfp100
#                    fbga144
#                    pqfp208
#                    fbga256
# Device:             a3p600l
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:             a3pe3000l
```

```
#                    pqfp208
#                    fbga324
#                    fbga484
#                    fbga896
# Device:            a3pe600l
#                    fbga484
# Device:            m1a3p1000l
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:            m1a3p600l
#                    fbga144
#                    pqfp208
#                    fbga256
#                    fbga484
# Device:            m1a3pe3000l
#                    pqfp208
#                    fbga324
#                    fbga484
#                    fbga896
# Device:            rt3pe3000l
#                    ccga484
#                    ccga896
# Device:            rt3pe600l
#                    ccga484
# ##############################################################
# Vendor:      altera
# ##############################################################
# ##############################################################
# Tool version:     Quartus II 9.1
# ##############################################################
# Family:            arria gx
# Device:            ep1agx20c
#                    f780c
#                    f780i
#                    f484c
#                    f484i
```

```
# Device:          ep1agx35c
#                  f484c
#                  f484i
# Device:          ep1agx35d
#                  f780c
#                  f780i
# Device:          ep1agx50c
#                  f484c
#                  f484i
# Device:          ep1agx50d
#                  f780c
#                  f780i
#                  f1152c
#                  f1152i
# Device:          ep1agx60c
#                  f484c
#                  f484i
# Device:          ep1agx60d
#                  f780c
#                  f780i
# Device:          ep1agx60e
#                  f1152c
#                  f1152i
# Device:          ep1agx90e
#                  f1152c
#                  f1152i
# Family:        arria ii gx
# Device:          ep2agx125d
#                  f25c
#                  f25i
# Device:          ep2agx125e
#                  f29c
#                  f29i
#                  f35c
#                  f35i
# Device:          ep2agx190e
#                  f29c
#                  f29i
```

```
# Device:          ep2agx190f
#                  f35c
#                  f35i
# Device:          ep2agx260e
#                  f29c
#                  f29i
# Device:          ep2agx260f
#                  f35c
#                  f35i
# Device:          ep2agx45c
#                  u17c
#                  u17i
# Device:          ep2agx45d
#                  f25c
#                  f25i
#                  f29c
#                  f29i
# Device:          ep2agx65c
#                  u17c
#                  u17i
# Device:          ep2agx65d
#                  f25c
#                  f25i
#                  f29c
#                  f29i
# Device:          ep2agx95d
#                  f25c
#                  f25i
# Device:          ep2agx95e
#                  f29c
#                  f29i
#                  f35c
#                  f35i
# Family:        cyclone
# Device:          ep1c12
#                  f256c
#                  f256i
#                  f324c
```

```
#                    f324i
#                    q240c
#                    q240i
# Device:             ep1c20
#                    f324c
#                    f324i
#                    f400c
#                    f400i
# Device:             ep1c3
#                    t100c
#                    t100i
#                    t100a
#                    t144c
#                    t144i
#                    t144a
# Device:             ep1c4
#                    f324c
#                    f324i
#                    f400c
#                    f400i
# Device:             ep1c6
#                    f256c
#                    f256i
#                    q240c
#                    q240i
#                    t144c
#                    t144i
# Family:           cyclone ii
# Device:             ep2c15a
#                    f256c
#                    f256a
#                    f256i
#                    f484c
#                    f484a
#                    f484i
# Device:             ep2c20
#                    f256c
#                    f256i
```

```
#                    f484c
#                    f484i
#                    q240c
# Device:             ep2c20a
#                    f256a
#                    f256i
#                    f484a
#                    f484i
# Device:             ep2c35
#                    f484c
#                    f484i
#                    f672c
#                    f672i
#                    u484c
#                    u484i
# Device:             ep2c5
#                    f256c
#                    f256i
#                    q208c
#                    q208i
#                    t144c
#                    t144i
# Device:             ep2c50
#                    f484c
#                    f484i
#                    f672c
#                    f672i
#                    u484c
#                    u484i
# Device:             ep2c5a
#                    f256a
#                    f256i
#                    t144a
# Device:             ep2c70
#                    f672c
#                    f672i
#                    f896c
#                    f896i
```

```
# Device:          ep2c8
#                  f256c
#                  f256i
#                  q208c
#                  q208i
#                  t144c
#                  t144i
# Device:          ep2c8a
#                  f256a
#                  f256i
# Family:        cyclone iii
# Device:          ep3c10
#                  f256c
#                  f256i
#                  m164c
#                  m164i
#                  e144c
#                  e144i
#                  u256c
#                  u256i
# Device:          ep3c120
#                  f484c
#                  f484i
#                  f780c
#                  f780i
# Device:          ep3c16
#                  f256c
#                  f256i
#                  f484c
#                  f484i
#                  m164c
#                  m164i
#                  q240c
#                  e144c
#                  e144i
#                  u256c
#                  u256i
#                  u484c
```

```
#                    u484i
# Device:             ep3c25
#                    f256c
#                    f256i
#                    f324c
#                    f324i
#                    q240c
#                    e144c
#                    e144i
#                    u256c
#                    u256i
# Device:             ep3c40
#                    f324c
#                    f324i
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    q240c
#                    u484c
#                    u484i
# Device:             ep3c5
#                    f256c
#                    f256i
#                    m164c
#                    m164i
#                    e144c
#                    e144i
#                    u256c
#                    u256i
# Device:             ep3c55
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    u484c
#                    u484i
# Device:             ep3c80
```

```
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    u484c
#                    u484i
# Family:          cyclone iii ls
# Device:            ep3cls100
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    u484c
#                    u484i
# Device:            ep3cls150
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Device:            ep3cls200
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Device:            ep3cls70
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    u484c
#                    u484i
# Family:          cyclone iv e
# Device:            ep4ce10
#                    f17c
#                    f17a
#                    f17i
#                    e22c
#                    e22a
```

```
#                    e22i
# Device:             ep4ce115
#                    f23c
#                    f23i
#                    f29c
#                    f29i
# Device:             ep4ce15
#                    f17c
#                    f17a
#                    f17i
#                    f23c
#                    f23a
#                    f23i
#                    e22c
#                    e22i
# Device:             ep4ce22
#                    f17c
#                    f17a
#                    f17i
#                    e22c
#                    e22a
#                    e22i
# Device:             ep4ce30
#                    f23c
#                    f23a
#                    f23i
#                    f29c
#                    f29i
# Device:             ep4ce40
#                    f23c
#                    f23a
#                    f23i
#                    f29c
#                    f29i
# Device:             ep4ce55
#                    f23c
#                    f23i
#                    f29c
```

```
#                    f29i
# Device:             ep4ce6
#                    f17c
#                    f17a
#                    f17i
#                    e22c
#                    e22a
#                    e22i
# Device:             ep4ce75
#                    f23c
#                    f23i
#                    f29c
#                    f29i
# Family:           cyclone iv gx
# Device:             ep4cgx15b
#                    f14c
#                    f14i
#                    n11c
# Device:             ep4cgx22b
#                    f14c
#                    f14i
# Device:             ep4cgx22c
#                    f19c
#                    f19i
# Device:             ep4cgx30b
#                    f14c
#                    f14i
# Device:             ep4cgx30c
#                    f19c
#                    f19i
# Family:           hardcopy ii
# Device:             hc210
#                    f484c
#                    f484i
#                    f484m
# Device:             hc210w
#                    f484c
#                    f484i
```

```
#                    f484m
#                    f484a
# Device:             hc220
#                    f672c
#                    f672i
#                    f672m
#                    f780c
#                    f780i
#                    f780m
# Device:             hc230
#                    f1020c
#                    f1020i
#                    f1020m
# Device:             hc240
#                    f1020c
#                    f1020i
#                    f1020m
#                    f1508c
#                    f1508i
#                    f1508m
# Family:          hardcopy iii
# Device:             hc315w
#                    f484
# Device:             hc325f
#                    f484
#                    f780
# Device:             hc325w
#                    f484
#                    f780
# Device:             hc335f
#                    f1152
#                    f1517
# Device:             hc335l
#                    f1152
#                    f1517
# Family:          hardcopy iv
# Device:             hc4e25f
#                    f484
```

```
#                    f780
# Device:             hc4e25w
#                    f484
#                    f780
# Device:             hc4e35f
#                    f1152
#                    f1517
# Device:             hc4e35l
#                    f1152
#                    f1517
# Device:             hc4gx15l
#                    f780
# Device:             hc4gx15la
#                    f780
# Device:             hc4gx25f
#                    f1152
# Device:             hc4gx25l
#                    f780
#                    f1152
# Device:             hc4gx35f
#                    f1152
#                    f1517
# Family:           max ii
# Device:             epm1270
#                    f256c
#                    f256i
#                    f256a
#                    m256c
#                    m256i
#                    t144c
#                    t144i
#                    t144a
# Device:             epm2210
#                    f256c
#                    f256i
#                    f256a
#                    f324c
#                    f324i
```

```
#                    f324a
# Device:             epm240
#                    f100c
#                    f100i
#                    m100c
#                    m100i
#                    t100c
#                    t100i
#                    t100a
# Device:             epm240z
#                    m68c
#                    m68i
#                    m100c
#                    m100i
# Device:             epm570
#                    f100c
#                    f100i
#                    f256c
#                    f256i
#                    m100c
#                    m100i
#                    m256c
#                    m256i
#                    t100c
#                    t100i
#                    t100a
#                    t144c
#                    t144i
#                    t144a
# Device:             epm570z
#                    m100c
#                    m100i
#                    m144c
#                    m144i
#                    m256c
#                    m256i
# Family:           max3000a
# Device:             epm3032a
```

```
#                    lc44
#                    tc44
#                    ti44
# Device:             epm3064a
#                    lc44
#                    tc44
#                    ti44
#                    tc100
#                    ti100
# Device:             epm3128a
#                    fi256
#                    tc100
#                    ti100
#                    tc144
#                    ti144
# Device:             epm3256a
#                    fc256
#                    fi256
#                    qc208
#                    qi208
#                    tc144
#                    ti144
# Device:             epm3512a
#                    fc256
#                    fi256
#                    qc208
#                    qi208
# Family:           max7000ae
# Device:             epm7032ae
#                    lc44
#                    tc44
#                    ti44
#                    ta44
# Device:             epm7064ae
#                    fc100
#                    lc44
#                    li44
#                    tc44
```

```
#                    ti44
#                    ta44
#                    tc100
#                    ti100
#                    ta100
# Device:             epm7128ae
#                    fc100
#                    fi100
#                    tc100
#                    ti100
#                    ta100
#                    tc144
#                    ti144
#                    ta144
# Device:             epm7256ae
#                    fc100
#                    fi100
#                    fc256
#                    fi256
#                    qc208
#                    qi208
#                    tc100
#                    ti100
#                    tc144
#                    ti144
# Device:             epm7512ae
#                    bc256
#                    fc256
#                    fi256
#                    qc208
#                    qi208
#                    tc144
# Family:           max7000b
# Device:             epm7032b
#                    tc44
# Device:             epm7064b
#                    fc100
#                    tc44
```

```
#                    tc100
# Device:             epm7128b
#                    tc100
#                    tc144
# Device:             epm7256b
#                    fc256
#                    fi256
#                    tc100
#                    tc144
# Device:             epm7512b
#                    fc256
#                    fi256
#                    tc144
#                    uc169
# Family:           max7000s
# Device:             epm7032s
#                    lc44
#                    li44
#                    tc44
#                    ti44
# Device:             epm7064s
#                    lc44
#                    li44
#                    lc84
#                    tc44
#                    ti44
#                    tc100
#                    ti100
# Device:             epm7128s
#                    lc84
#                    li84
#                    qc100
#                    qi100
#                    qc160
#                    qi160
#                    tc100
#                    ti100
# Device:             epm7160s
```

```
#                    lc84
#                    li84
#                    qc160
#                    tc100
#                    ti100
# Device:             epm7192s
#                    qc160
#                    qi160
# Device:             epm7256s
#                    qc208
#                    rc208
#                    ri208
# Family:           stratix
# Device:             ep1s10
#                    b672c
#                    f484c
#                    f484i
#                    f672c
#                    f672i
#                    f780c
#                    f780i
# Device:             ep1s20
#                    b672c
#                    f484c
#                    f484i
#                    f672c
#                    f672i
#                    f780c
#                    f780i
# Device:             ep1s25
#                    b672c
#                    f672c
#                    f672i
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
# Device:             ep1s30
```

```
#                    b956c
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
# Device:             ep1s40
#                    b956c
#                    b956i
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
#                    f1508c
# Device:             ep1s60
#                    b956c
#                    b956i
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Device:             ep1s80
#                    b956c
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Family:           stratix gx
# Device:             ep1sgx10c
#                    f672c
# Device:             ep1sgx10d
#                    f672c
#                    f672i
# Device:             ep1sgx25c
#                    f672c
#                    f672i
# Device:             ep1sgx25d
#                    f672c
#                    f672i
```

```
#                    f1020c
# Device:             ep1sgx25f
#                    f1020c
#                    f1020i
# Device:             ep1sgx40d
#                    f1020c
#                    f1020i
# Device:             ep1sgx40g
#                    f1020c
#                    f1020i
# Family:           stratix ii
# Device:             ep2s130
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Device:             ep2s15
#                    f484c
#                    f484i
#                    f672c
#                    f672i
# Device:             ep2s180
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Device:             ep2s30
#                    f484c
#                    f484i
#                    f672c
#                    f672i
# Device:             ep2s60
#                    f484c
#                    f484i
#                    f672c
#                    f672i
```

```
#                    f1020c
#                    f1020i
# Device:             ep2s90
#                    h484c
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Family:           stratix ii gx
# Device:             ep2sgx130g
#                    f1508c
#                    f1508i
# Device:             ep2sgx30c
#                    f780c
# Device:             ep2sgx30d
#                    f780c
#                    f780i
# Device:             ep2sgx60c
#                    f780c
# Device:             ep2sgx60d
#                    f780c
#                    f780i
# Device:             ep2sgx60e
#                    f1152c
#                    f1152i
# Device:             ep2sgx90e
#                    f1152c
#                    f1152i
# Device:             ep2sgx90f
#                    f1508c
#                    f1508i
# Family:           stratix iii
# Device:             ep3se110
#                    f780c
#                    f780i
#                    f1152c
```

```
#                    f1152i
# Device:             ep3se260
#                    h780c
#                    h780i
#                    f1152c
#                    f1152i
#                    f1517c
#                    f1517i
# Device:             ep3se50
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Device:             ep3se80
#                    f780c
#                    f780i
#                    f1152c
#                    f1152i
# Device:             ep3sl110
#                    f780c
#                    f780i
#                    f1152c
#                    f1152i
# Device:             ep3sl150
#                    f780c
#                    f780i
#                    f1152c
#                    f1152i
# Device:             ep3sl200
#                    h780c
#                    h780i
#                    f1152c
#                    f1152i
#                    f1517c
#                    f1517i
# Device:             ep3sl340
#                    h1152c
#                    h1152i
```

```
#                    f1517c
#                    f1517i
#                    f1760c
#                    f1760i
# Device:             ep3sl50
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Device:             ep3sl70
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Family:           stratix iv
# Device:             ep4s100g2
#                    f40i
# Device:             ep4s100g3
#                    f45i
# Device:             ep4s100g4
#                    f45i
# Device:             ep4s100g5
#                    h40i
#                    f45i
# Device:             ep4s40g2
#                    f40i
# Device:             ep4s40g5
#                    h40i
# Device:             ep4se230
#                    f29c
#                    f29i
# Device:             ep4se360
#                    h29c
#                    h29i
#                    f35c
#                    f35i
# Device:             ep4se530
#                    h35c
```

```
#                    h35i
#                    h40c
#                    h40i
#                    f43c
#                    f43i
# Device:             ep4se820
#                    h35c
#                    h35i
#                    h40c
#                    h40i
#                    f43c
#                    f43i
# Device:             ep4sgx110d
#                    f29c
#                    f29i
# Device:             ep4sgx110f
#                    f35c
#                    f35i
# Device:             ep4sgx110h
#                    f35c
#                    f35i
# Device:             ep4sgx180d
#                    f29c
#                    f29i
# Device:             ep4sgx180f
#                    f35c
#                    f35i
# Device:             ep4sgx180h
#                    f35c
#                    f35i
# Device:             ep4sgx180k
#                    f40c
#                    f40i
# Device:             ep4sgx230d
#                    f29c
#                    f29i
# Device:             ep4sgx230f
#                    f35c
```

f35i

Device: ep4sgx230h

f35c

f35i

Device: ep4sgx230k

f40c

f40i

Device: ep4sgx290f

h29c

h29i

f35c

f35i

Device: ep4sgx290h

f35c

f35i

Device: ep4sgx290k

f40c

f40i

f43c

f43i

Device: ep4sgx290n

f45c

f45i

Device: ep4sgx360f

h29c

h29i

f35c

f35i

Device: ep4sgx360h

f35c

f35i

Device: ep4sgx360k

f40c

f40i

f43c

f43i

Device: ep4sgx360n

f45c

```
#                    f45i
# Device:             ep4sgx530h
#                    h35c
#                    h35i
# Device:             ep4sgx530k
#                    h40c
#                    h40i
#                    f43c
#                    f43i
# Device:             ep4sgx530n
#                    f45c
#                    f45i
# Device:             ep4sgx70d
#                    f29c
#                    f29i
# Device:             ep4sgx70h
#                    f35c
#                    f35i
# ##############################################################
# Tool version:     Quartus II 9.0
# ##############################################################
# Family:           acex1k
# Device:             ep1k10
#                    fc256
#                    fi256
#                    qc208
#                    tc100
#                    ti100
#                    tc144
# Device:             ep1k100
#                    fc256
#                    fi256
#                    fc484
#                    fi484
#                    qc208
#                    qi208
# Device:             ep1k30
#                    fc256
```

```
#                    fi256
#                    qc208
#                    tc144
#                    ti144
# Device:             ep1k50
#                    fc256
#                    fi256
#                    fc484
#                    qc208
#                    qi208
#                    tc144
#                    ti144
# Family:          apex ii
# Device:             ep2a15
#                    b724c
#                    f672c
# Device:             ep2a25
#                    f672c
# Device:             ep2a40
#                    b724c
#                    f672c
#                    f1020c
# Family:          apex20kc
# Device:             ep20k1000c
#                    b652c
#                    f672c
#                    f33c
# Device:             ep20k200c
#                    f484c
# Device:             ep20k400c
#                    b652c
#                    f672c
# Device:             ep20k600c
#                    b652c
#                    f672c
# Family:          apex20ke
# Device:             ep20k1000e
#                    bc652
```

```
#                    bi652
#                    fc672
#                    fi672
#                    fc33
# Device:             ep20k100e
#                    bc356
#                    fc144
#                    fi144
#                    fc324
#                    fi324
#                    qc208
#                    qc240
#                    tc144
# Device:             ep20k1500e
#                    bc652
#                    fc33
# Device:             ep20k160e
#                    bc356
#                    fc484
#                    fi484
#                    qc208
#                    qc240
#                    tc144
# Device:             ep20k200e
#                    bc356
#                    bc652
#                    fc484
#                    fi484
#                    fc672
#                    qc208
#                    qc240
#                    qi240
# Device:             ep20k300e
#                    bc652
#                    fc672
#                    fi672
#                    qc240
# Device:             ep20k30e
```

```
#                    tc144
# Device:             ep20k400e
#                    bc652
#                    bi652
#                    fc672
#                    fi672
# Device:             ep20k600e
#                    bc652
#                    bi652
#                    fc672
#                    fi672
#                    fc33
# Device:             ep20k60e
#                    fc144
#                    fc324
#                    qc208
#                    tc144
# Family:           arria gx
# Device:             ep1agx20c
#                    f780c
#                    f780i
#                    f484c
#                    f484i
# Device:             ep1agx35c
#                    f484c
#                    f484i
# Device:             ep1agx35d
#                    f780c
#                    f780i
# Device:             ep1agx50c
#                    f484c
#                    f484i
# Device:             ep1agx50d
#                    f780c
#                    f780i
#                    f1152c
#                    f1152i
# Device:             ep1agx60c
```

```
#                    f484c
#                    f484i
# Device:             ep1agx60d
#                    f780c
#                    f780i
# Device:             ep1agx60e
#                    f1152c
#                    f1152i
# Device:             ep1agx90e
#                    f1152c
#                    f1152i
# Family:           arria ii gx
# Device:             ep2agx125d
#                    f25c
#                    f25i
# Device:             ep2agx125e
#                    f29c
#                    f29i
#                    f35c
#                    f35i
# Device:             ep2agx190e
#                    f29c
#                    f29i
# Device:             ep2agx190f
#                    f35c
#                    f35i
# Device:             ep2agx20c
#                    f25c
#                    f25i
#                    u17c
#                    u17i
# Device:             ep2agx260e
#                    f29c
#                    f29i
# Device:             ep2agx260f
#                    f35c
#                    f35i
# Device:             ep2agx30c
```

```
#                    f25c
#                    f25i
#                    u17c
#                    u17i
# Device:             ep2agx45c
#                    u17c
#                    u17i
# Device:             ep2agx45d
#                    f25c
#                    f25i
#                    f29c
#                    f29i
# Device:             ep2agx65c
#                    u17c
#                    u17i
# Device:             ep2agx65d
#                    f25c
#                    f25i
#                    f29c
#                    f29i
# Device:             ep2agx95d
#                    f25c
#                    f25i
# Device:             ep2agx95e
#                    f29c
#                    f29i
#                    f35c
#                    f35i
# Family:           cyclone
# Device:             ep1c12
#                    f256c
#                    f256i
#                    f324c
#                    f324i
#                    q240c
#                    q240i
# Device:             ep1c20
#                    f324c
```

```
#                    f324i
#                    f400c
#                    f400i
# Device:             ep1c3
#                    t100c
#                    t100i
#                    t100a
#                    t144c
#                    t144i
#                    t144a
# Device:             ep1c4
#                    f324c
#                    f324i
#                    f400c
#                    f400i
# Device:             ep1c6
#                    f256c
#                    f256i
#                    q240c
#                    q240i
#                    t144c
#                    t144i
# Family:           cyclone ii
# Device:             ep2c15a
#                    f256c
#                    f256a
#                    f256i
#                    f484c
#                    f484a
#                    f484i
# Device:             ep2c20
#                    f256c
#                    f256i
#                    f484c
#                    f484i
#                    q240c
# Device:             ep2c20a
#                    f256a
```

```
#                    f256i
#                    f484a
#                    f484i
# Device:             ep2c35
#                    f484c
#                    f484i
#                    f672c
#                    f672i
#                    u484c
#                    u484i
# Device:             ep2c5
#                    f256c
#                    f256i
#                    q208c
#                    q208i
#                    t144c
#                    t144i
# Device:             ep2c50
#                    f484c
#                    f484i
#                    f672c
#                    f672i
#                    u484c
#                    u484i
# Device:             ep2c5a
#                    f256a
#                    f256i
#                    t144a
# Device:             ep2c70
#                    f672c
#                    f672i
#                    f896c
#                    f896i
# Device:             ep2c8
#                    f256c
#                    f256i
#                    q208c
#                    q208i
```

```
#                    t144c
#                    t144i
# Device:             ep2c8a
#                    f256a
#                    f256i
# Family:           cyclone iii
# Device:             ep3c10
#                    f256c
#                    f256i
#                    f256a
#                    m164c
#                    m164i
#                    e144c
#                    e144i
#                    e144a
#                    u256c
#                    u256i
#                    u256a
# Device:             ep3c120
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Device:             ep3c16
#                    f256c
#                    f256i
#                    f256a
#                    f484c
#                    f484i
#                    f484a
#                    m164c
#                    m164i
#                    q240c
#                    e144c
#                    e144i
#                    e144a
#                    u256c
#                    u256i
```

```
#                    u256a
#                    u484c
#                    u484i
#                    u484a
# Device:             ep3c25
#                    f256c
#                    f256i
#                    f256a
#                    f324c
#                    f324i
#                    f324a
#                    q240c
#                    e144c
#                    e144i
#                    e144a
#                    u256c
#                    u256i
#                    u256a
# Device:             ep3c40
#                    f324c
#                    f324i
#                    f324a
#                    f484c
#                    f484i
#                    f484a
#                    f780c
#                    f780i
#                    q240c
#                    u484c
#                    u484i
#                    u484a
# Device:             ep3c5
#                    f256c
#                    f256i
#                    f256a
#                    m164c
#                    m164i
#                    e144c
```

```
#                    e144i
#                    e144a
#                    u256c
#                    u256i
#                    u256a
# Device:             ep3c55
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    u484c
#                    u484i
# Device:             ep3c80
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    u484c
#                    u484i
# Family:           cyclone iii ls
# Device:             ep3cls100
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    u484c
#                    u484i
# Device:             ep3cls150
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Device:             ep3cls200
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Device:             ep3cls70
```

```
#                    f484c
#                    f484i
#                    f780c
#                    f780i
#                    u484c
#                    u484i
# Family:          flex10k
# Device:            epf10k10
#                    lc84
#                    qc208
#                    qi208
#                    tc144
#                    ti144
# Device:            epf10k20
#                    rc208
#                    ri208
#                    rc240
#                    ri240
#                    tc144
#                    ti144
# Device:            epf10k30
#                    bc356
#                    rc208
#                    ri208
#                    rc240
#                    ri240
# Device:            epf10k40
#                    rc208
#                    rc240
# Device:            epf10k50
#                    bc356
#                    rc240
#                    ri240
# Device:            epf10k70
#                    rc240
# Family:          flex10ka
# Device:            epf10k100a
#                    bc356
```

```
#                    bi356
#                    bc600
#                    fc484
#                    rc240
#                    ri240
# Device:             epf10k10a
#                    qc208
#                    tc100
#                    tc144
#                    ti144
# Device:             epf10k30a
#                    bc356
#                    fc256
#                    fc484
#                    qc208
#                    qi208
#                    qc240
#                    qi240
#                    tc144
#                    ti144
# Device:             epf10k50v
#                    bc356
#                    bi356
#                    fc484
#                    qc240
#                    rc240
#                    ri240
# Family:           flex10ke
# Device:             epf10k100e
#                    bc356
#                    fc256
#                    fi256
#                    fc484
#                    fi484
#                    qc208
#                    qi208
#                    qc240
# Device:             epf10k130e
```

```
#                    bc356
#                    bi356
#                    fc484
#                    fi484
#                    qc240
#                    qi240
# Device:             epf10k200s
#                    bi356
#                    bc600
#                    fc484
#                    fc672
#                    fi672
#                    rc240
# Device:             epf10k30e
#                    fc256
#                    fi256
#                    fc484
#                    qc208
#                    qi208
#                    tc144
#                    ti144
# Device:             epf10k50s
#                    bc356
#                    fc256
#                    fc484
#                    qc208
#                    qc240
# Family:           flex6000
# Device:             epf6010a
#                    tc100
#                    ti100
#                    tc144
# Device:             epf6016
#                    bc256
#                    qc208
#                    qi208
#                    qc240
#                    tc144
```

```
#                    ti144
# Device:             epf6016a
#                    fc100
#                    fc256
#                    qc208
#                    tc100
#                    ti100
#                    tc144
#                    ti144
# Device:             epf6024a
#                    bc256
#                    fc256
#                    qc208
#                    qc240
#                    tc144
# Family:           hardcopy ii
# Device:             hc210
#                    f484c
#                    f484i
#                    f484m
# Device:             hc210w
#                    f484c
#                    f484i
#                    f484m
#                    f484a
# Device:             hc220
#                    f672c
#                    f672i
#                    f672m
#                    f780c
#                    f780i
#                    f780m
# Device:             hc230
#                    f1020c
#                    f1020i
#                    f1020m
# Device:             hc240
#                    f1020c
```

```
#                    f1020i
#                    f1020m
#                    f1508c
#                    f1508i
#                    f1508m
# Family:          hardcopy iii
# Device:            hc315w
#                    f484
# Device:            hc325f
#                    f484
#                    f780
# Device:            hc325w
#                    f484
#                    f780
# Device:            hc335f
#                    f1152
#                    f1517
# Device:            hc335l
#                    f1152
#                    f1517
# Family:          hardcopy iv
# Device:            hc4e25f
#                    f484
#                    f780
# Device:            hc4e25w
#                    f484
#                    f780
# Device:            hc4e35f
#                    f1152
#                    f1517
# Device:            hc4e35l
#                    f1152
#                    f1517
# Family:          hardcopy stratix
# Device:            hc1s25
#                    f672
# Device:            hc1s30
#                    f780
```

```
# Device:          hc1s40
#                  f780
# Device:          hc1s60
#                  f1020
# Device:          hc1s80
#                  f1020
# Family:        max ii
# Device:          epm1270
#                  f256c
#                  f256i
#                  f256a
#                  m256c
#                  m256i
#                  t144c
#                  t144i
#                  t144a
# Device:          epm2210
#                  f256c
#                  f256i
#                  f256a
#                  f324c
#                  f324i
#                  f324a
# Device:          epm240
#                  f100c
#                  f100i
#                  m100c
#                  m100i
#                  t100c
#                  t100i
#                  t100a
# Device:          epm240z
#                  m68c
#                  m68i
#                  m100c
#                  m100i
# Device:          epm570
#                  f100c
```

```
#                    f100i
#                    f256c
#                    f256i
#                    m100c
#                    m100i
#                    m256c
#                    m256i
#                    t100c
#                    t100i
#                    t100a
#                    t144c
#                    t144i
#                    t144a
# Device:             epm570z
#                    m100c
#                    m100i
#                    m144c
#                    m144i
#                    m256c
#                    m256i
# Family:           max3000a
# Device:             epm3032a
#                    lc44
#                    tc44
#                    ti44
# Device:             epm3064a
#                    lc44
#                    tc44
#                    ti44
#                    tc100
#                    ti100
# Device:             epm3128a
#                    fi256
#                    tc100
#                    ti100
#                    tc144
#                    ti144
# Device:             epm3256a
```

```
#                    fc256
#                    fi256
#                    qc208
#                    qi208
#                    tc144
#                    ti144
# Device:             epm3512a
#                    fc256
#                    fi256
#                    qc208
#                    qi208
# Family:           max7000ae
# Device:             epm7032ae
#                    lc44
#                    tc44
#                    ti44
#                    ta44
# Device:             epm7064ae
#                    fc100
#                    lc44
#                    li44
#                    tc44
#                    ti44
#                    ta44
#                    tc100
#                    ti100
#                    ta100
# Device:             epm7128ae
#                    fc100
#                    fi100
#                    tc100
#                    ti100
#                    ta100
#                    tc144
#                    ti144
#                    ta144
# Device:             epm7256ae
#                    fc100
```

```
#                    fi100
#                    fc256
#                    fi256
#                    qc208
#                    qi208
#                    tc100
#                    ti100
#                    tc144
#                    ti144
# Device:             epm7512ae
#                    bc256
#                    fc256
#                    fi256
#                    qc208
#                    qi208
#                    tc144
# Family:          max7000b
# Device:             epm7032b
#                    tc44
# Device:             epm7064b
#                    fc100
#                    tc44
#                    tc100
# Device:             epm7128b
#                    tc100
#                    tc144
# Device:             epm7256b
#                    fc256
#                    fi256
#                    tc100
#                    tc144
# Device:             epm7512b
#                    fc256
#                    fi256
#                    tc144
#                    uc169
# Family:          max7000s
# Device:             epm7032s
```

```
#                    lc44
#                    li44
#                    tc44
#                    ti44
# Device:             epm7064s
#                    lc44
#                    li44
#                    lc84
#                    tc44
#                    ti44
#                    tc100
#                    ti100
# Device:             epm7128s
#                    lc84
#                    li84
#                    qc100
#                    qi100
#                    qc160
#                    qi160
#                    tc100
#                    ti100
# Device:             epm7160s
#                    lc84
#                    li84
#                    qc160
#                    tc100
#                    ti100
# Device:             epm7192s
#                    qc160
#                    qi160
# Device:             epm7256s
#                    qc208
#                    rc208
#                    ri208
# Family:           stratix
# Device:             ep1s10
#                    b672c
#                    f484c
```

```
#                    f484i
#                    f672c
#                    f672i
#                    f780c
#                    f780i
# Device:             ep1s20
#                    b672c
#                    f484c
#                    f484i
#                    f672c
#                    f672i
#                    f780c
#                    f780i
# Device:             ep1s25
#                    b672c
#                    f672c
#                    f672i
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
# Device:             ep1s30
#                    b956c
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
# Device:             ep1s40
#                    b956c
#                    b956i
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
#                    f1508c
# Device:             ep1s60
#                    b956c
#                    b956i
```

```
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Device:             ep1s80
#                    b956c
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Family:          stratix gx
# Device:             ep1sgx10c
#                    f672c
# Device:             ep1sgx10d
#                    f672c
#                    f672i
# Device:             ep1sgx25c
#                    f672c
#                    f672i
# Device:             ep1sgx25d
#                    f672c
#                    f672i
#                    f1020c
# Device:             ep1sgx25f
#                    f1020c
#                    f1020i
# Device:             ep1sgx40d
#                    f1020c
#                    f1020i
# Device:             ep1sgx40g
#                    f1020c
#                    f1020i
# Family:          stratix ii
# Device:             ep2s130
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
```

```
#                    f1508c
#                    f1508i
# Device:             ep2s15
#                    f484c
#                    f484i
#                    f672c
#                    f672i
# Device:             ep2s180
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Device:             ep2s30
#                    f484c
#                    f484i
#                    f672c
#                    f672i
# Device:             ep2s60
#                    f484c
#                    f484i
#                    f672c
#                    f672i
#                    f1020c
#                    f1020i
# Device:             ep2s90
#                    h484c
#                    f780c
#                    f780i
#                    f1020c
#                    f1020i
#                    f1508c
#                    f1508i
# Family:           stratix ii gx
# Device:             ep2sgx130g
#                    f1508c
#                    f1508i
# Device:             ep2sgx30c
#                    f780c
```

```
# Device:          ep2sgx30d
#                  f780c
#                  f780i
# Device:          ep2sgx60c
#                  f780c
# Device:          ep2sgx60d
#                  f780c
#                  f780i
# Device:          ep2sgx60e
#                  f1152c
#                  f1152i
# Device:          ep2sgx90e
#                  f1152c
#                  f1152i
# Device:          ep2sgx90f
#                  f1508c
#                  f1508i
# Family:        stratix iii
# Device:          ep3se110
#                  f780c
#                  f780i
#                  f1152c
#                  f1152i
# Device:          ep3se260
#                  h780c
#                  h780i
#                  f1152c
#                  f1152i
#                  f1517c
#                  f1517i
# Device:          ep3se50
#                  f484c
#                  f484i
#                  f780c
#                  f780i
# Device:          ep3se80
#                  f780c
#                  f780i
```

```
#                    f1152c
#                    f1152i
# Device:             ep3sl110
#                    f780c
#                    f780i
#                    f1152c
#                    f1152i
# Device:             ep3sl150
#                    f780c
#                    f780i
#                    f1152c
#                    f1152i
# Device:             ep3sl200
#                    h780c
#                    h780i
#                    f1152c
#                    f1152i
#                    f1517c
#                    f1517i
# Device:             ep3sl340
#                    h1152c
#                    h1152i
#                    f1517c
#                    f1517i
#                    f1760c
#                    f1760i
# Device:             ep3sl50
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Device:             ep3sl70
#                    f484c
#                    f484i
#                    f780c
#                    f780i
# Family:           stratix iv
# Device:             ep4se230
```

```
#                    f29c
#                    f29i
# Device:             ep4se530
#                    h35c
#                    h35i
#                    h40c
#                    h40i
#                    f43c
#                    f43i
# Device:             ep4sgx110d
#                    f29c
#                    f29i
# Device:             ep4sgx110f
#                    f35c
#                    f35i
# Device:             ep4sgx110h
#                    f35c
#                    f35i
# Device:             ep4sgx180d
#                    f29c
#                    f29i
# Device:             ep4sgx180f
#                    f35c
#                    f35i
# Device:             ep4sgx180h
#                    f35c
#                    f35i
# Device:             ep4sgx180k
#                    f40c
#                    f40i
# Device:             ep4sgx230d
#                    f29c
#                    f29i
# Device:             ep4sgx230f
#                    f35c
#                    f35i
# Device:             ep4sgx230h
#                    f35c
```

f35i

Device: ep4sgx230k

f40c

f40i

Device: ep4sgx290f

h29c

h29i

f35c

f35i

Device: ep4sgx290h

f35c

f35i

Device: ep4sgx290k

f40c

f40i

f43c

f43i

Device: ep4sgx290n

f45c

f45i

Device: ep4sgx360f

h29c

h29i

f35c

f35i

Device: ep4sgx360h

f35c

f35i

Device: ep4sgx360k

f40c

f40i

f43c

f43i

Device: ep4sgx360n

f45c

f45i

Device: ep4sgx530h

h35c

```
#                    h35i
# Device:             ep4sgx530k
#                    h40c
#                    h40i
#                    f43c
#                    f43i
# Device:             ep4sgx530n
#                    f45c
#                    f45i
# Device:             ep4sgx70d
#                    f29c
#                    f29i
# Device:             ep4sgx70h
#                    f35c
#                    f35i
# ################################################################
# Vendor:       lattice
# ################################################################
# ################################################################
# Tool version:     ispLEVER80
# ################################################################
# Family:             latticeec
# Device:             lfec10e
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfec15e
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfec1e
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
```

```
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
# Device:             lfec20e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfec33e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfec3e
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
# Device:             lfec6e
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Family:           latticeecp
# Device:             lfecp10e
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
```

```
#                    fpbga484i
# Device:             lfecp15e
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfecp20e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfecp33e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfecp6e
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Family:           latticeecp2
# Device:             lfe2-12e
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfe2-20e
#                    pqfp208c
#                    pqfp208i
```

```
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-35e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-50e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-6e
#                    tqfp144c
#                    tqfp144i
#                    fpbga256c
#                    fpbga256i
# Device:             lfe2-70e
#                    fpbga672c
#                    fpbga672i
#                    fpbga900c
#                    fpbga900i
# Family:           latticeecp2m
# Device:             lfe2m100e
#                    fpbga900c
#                    fpbga900i
#                    fpbga1152c
#                    fpbga1152i
# Device:             lfe2m20e
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfe2m35e
```

```
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2m50e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
#                    fpbga900c
#                    fpbga900i
# Device:             lfe2m70e
#                    fpbga900c
#                    fpbga900i
#                    fpbga1152c
#                    fpbga1152i
# Family:           latticeecp2ms
# Device:             lfe2m100se
#                    fpbga900c
#                    fpbga900i
#                    fpbga1152c
#                    fpbga1152i
# Device:             lfe2m20se
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfe2m35se
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2m50se
#                    fpbga484c
```

```
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
#                    fpbga900c
#                    fpbga900i
# Device:             lfe2m70se
#                    fpbga900c
#                    fpbga900i
#                    fpbga1152c
#                    fpbga1152i
# Family:           latticeecp2s
# Device:             lfe2-12se
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfe2-20se
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-35se
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-50se
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
```

```
#                    fpbga672i
# Device:             lfe2-6se
#                    tqfp144c
#                    tqfp144i
#                    fpbga256c
#                    fpbga256i
# Device:             lfe2-70se
#                    fpbga672c
#                    fpbga672i
#                    fpbga900c
#                    fpbga900i
# Family:           latticeecp3
# Device:             lfe3-150ea
#                    fpbga672ctw
#                    fpbga672itw
#                    fpbga1156ctw
#                    fpbga1156itw
# Device:             lfe3-35ea
#                    ftbga256ces
#                    ftbga256ies
#                    fpbga484ces
#                    fpbga484ies
#                    fpbga672ces
#                    fpbga672ies
# Device:             lfe3-70e
#                    fpbga484ces
#                    fpbga484ies
#                    fpbga672ces
#                    fpbga672ies
#                    fpbga1156ces
#                    fpbga1156ies
# Device:             lfe3-70ea
#                    fpbga484ces
#                    fpbga484ies
#                    fpbga672ces
#                    fpbga672ies
#                    fpbga1156ces
#                    fpbga1156ies
```

```
# Device:          lfe3-95e
#                  fpbga484ces
#                  fpbga484ies
#                  fpbga672ces
#                  fpbga672ies
#                  fpbga1156ces
#                  fpbga1156ies
# Device:          lfe3-95ea
#                  fpbga484ces
#                  fpbga484ies
#                  fpbga672ces
#                  fpbga672ies
#                  fpbga1156ces
#                  fpbga1156ies
# Family:          latticesc
# Device:          lfsc3ga115e
#                  fcbga1152c
#                  fcbga1152i
#                  fcbga1704c
#                  fcbga1704i
# Device:          lfsc3ga15e
#                  fpbga256c
#                  fpbga256i
#                  fpbga900c
#                  fpbga900i
# Device:          lfsc3ga25e
#                  fpbga900c
#                  fpbga900i
#                  ffbga1020c
#                  ffbga1020i
# Device:          lfsc3ga40e
#                  ffbga1020c
#                  ffbga1020i
#                  fcbga1152c
#                  fcbga1152i
# Device:          lfsc3ga80e
#                  fcbga1152c
#                  fcbga1152i
```

```
#                    fcbga1704c
#                    fcbga1704i
# Family:            latticescm
# Device:            lfscm3ga115ep1
#                    fcbga1152c
#                    fcbga1152i
#                    fcbga1704c
#                    fcbga1704i
# Device:            lfscm3ga15ep1
#                    fpbga256c
#                    fpbga256i
#                    fpbga900c
#                    fpbga900i
# Device:            lfscm3ga25ep1
#                    fpbga900c
#                    fpbga900i
#                    ffbga1020c
#                    ffbga1020i
# Device:            lfscm3ga40ep1
#                    ffbga1020c
#                    ffbga1020i
#                    fcbga1152c
#                    fcbga1152i
# Device:            lfscm3ga80ep1
#                    fcbga1152c
#                    fcbga1152i
#                    fcbga1704c
#                    fcbga1704i
# Family:            latticexp
# Device:            lfxp10c
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
# Device:            lfxp10e
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
```

```
#                    fpbga388i
# Device:             lfxp15c
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
#                    fpbga484c
#                    fpbga484i
# Device:             lfxp15e
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
#                    fpbga484c
#                    fpbga484i
# Device:             lfxp20c
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
#                    fpbga484c
#                    fpbga484i
# Device:             lfxp20e
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
#                    fpbga484c
#                    fpbga484i
# Device:             lfxp3c
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
# Device:             lfxp3e
#                    tqfp100c
```

```
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
# Device:             lfxp6c
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
# Device:             lfxp6e
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
# Family:           latticexp2
# Device:             laxp2-17e
#                    pqfp208e
#                    ftbga256e
# Device:             laxp2-5e
#                    tqfp144e
#                    pqfp208e
#                    ftbga256e
# Device:             laxp2-8e
#                    tqfp144e
#                    pqfp208e
#                    ftbga256e
# Device:             lfxp2-17e
#                    pqfp208c
#                    pqfp208i
#                    ftbga256c
#                    ftbga256i
#                    fpbga484c
#                    fpbga484i
```

```
# Device:          lfxp2-30e
#                  ftbga256c
#                  ftbga256i
#                  fpbga484c
#                  fpbga484i
#                  fpbga672c
#                  fpbga672i
# Device:          lfxp2-40e
#                  fpbga484c
#                  fpbga484i
#                  fpbga672c
#                  fpbga672i
# Device:          lfxp2-5e
#                  csbga132c
#                  csbga132i
#                  tqfp144c
#                  tqfp144i
#                  pqfp208c
#                  pqfp208i
#                  ftbga256c
#                  ftbga256i
# Device:          lfxp2-8e
#                  csbga132c
#                  csbga132i
#                  tqfp144c
#                  tqfp144i
#                  pqfp208c
#                  pqfp208i
#                  ftbga256c
#                  ftbga256i
# Family:          machxo
# Device:          lamxo1200e
#                  tqfp100e
#                  tqfp144e
#                  ftbga256e
# Device:          lamxo2280e
#                  tqfp100e
#                  tqfp144e
```

```
#                    ftbga256e
#                    ftbga324e
# Device:             lamxo256c
#                    tqfp100e
# Device:             lamxo256e
#                    tqfp100e
# Device:             lamxo640c
#                    tqfp100e
#                    tqfp144e
#                    ftbga256e
# Device:             lamxo640e
#                    tqfp100e
#                    tqfp144e
#                    ftbga256e
# Device:             lcmxo1200c
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    csbga132c
#                    csbga132i
#                    cabga256c
#                    cabga256i
# Device:             lcmxo1200e
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    csbga132c
#                    csbga132i
#                    cabga256c
#                    cabga256i
# Device:             lcmxo2280c
#                    tqfp100c
```

```
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    ftbga324c
#                    ftbga324i
#                    csbga132c
#                    csbga132i
#                    cabga256c
#                    cabga256i
# Device:             lcmxo2280e
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    ftbga324c
#                    ftbga324i
#                    csbga132c
#                    csbga132i
#                    cabga256c
#                    cabga256i
# Device:             lcmxo256c
#                    tqfp100c
#                    tqfp100i
#                    csbga100c
#                    csbga100i
# Device:             lcmxo256e
#                    tqfp100c
#                    tqfp100i
#                    csbga100c
#                    csbga100i
# Device:             lcmxo640c
#                    csbga100c
#                    csbga100i
#                    csbga132c
```

```
#                    csbga132i
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    cabga256c
#                    cabga256i
# Device:             lcmxo640e
#                    csbga100c
#                    csbga100i
#                    csbga132c
#                    csbga132i
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    cabga256c
#                    cabga256i
# ##############################################################
# Tool version:     ispLEVER72
# ##############################################################
# Family:           latticeec
# Device:             lfec10e
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfec15e
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
```

```
# Device:          lfec1e
#                  tqfp100c
#                  tqfp100i
#                  tqfp144c
#                  tqfp144i
#                  pqfp208c
#                  pqfp208i
# Device:          lfec20e
#                  fpbga484c
#                  fpbga484i
#                  fpbga672c
#                  fpbga672i
# Device:          lfec33e
#                  fpbga484c
#                  fpbga484i
#                  fpbga672c
#                  fpbga672i
# Device:          lfec3e
#                  tqfp100c
#                  tqfp100i
#                  tqfp144c
#                  tqfp144i
#                  pqfp208c
#                  pqfp208i
#                  fpbga256c
#                  fpbga256i
# Device:          lfec6e
#                  tqfp144c
#                  tqfp144i
#                  pqfp208c
#                  pqfp208i
#                  fpbga256c
#                  fpbga256i
#                  fpbga484c
#                  fpbga484i
# Family:          latticeecp
# Device:          lfecp10e
#                  pqfp208c
```

```
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfecp15e
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfecp20e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfecp33e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfecp6e
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Family:           latticeecp2
# Device:             lfe2-12e
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
```

```
#                    fpbga484i
# Device:             lfe2-20e
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-35e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-50e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-6e
#                    tqfp144c
#                    tqfp144i
#                    fpbga256c
#                    fpbga256i
# Device:             lfe2-70e
#                    fpbga672c
#                    fpbga672i
#                    fpbga900c
#                    fpbga900i
# Family:           latticeecp2m
# Device:             lfe2m100e
#                    fpbga900c
#                    fpbga900i
#                    fpbga1152c
#                    fpbga1152i
# Device:             lfe2m20e
#                    fpbga256c
```

```
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:            lfe2m35e
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:            lfe2m50e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
#                    fpbga900c
#                    fpbga900i
# Device:            lfe2m70e
#                    fpbga900c
#                    fpbga900i
#                    fpbga1152c
#                    fpbga1152i
# Family:            latticeecp2ms
# Device:            lfe2m100se
#                    fpbga900c
#                    fpbga900i
#                    fpbga1152c
#                    fpbga1152i
# Device:            lfe2m20se
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:            lfe2m35se
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
```

```
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2m50se
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
#                    fpbga900c
#                    fpbga900i
# Device:             lfe2m70se
#                    fpbga900c
#                    fpbga900i
#                    fpbga1152c
#                    fpbga1152i
# Family:           latticeecp2s
# Device:             lfe2-12se
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
# Device:             lfe2-20se
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:             lfe2-35se
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
```

```
# Device:          lfe2-50se
#                  fpbga484c
#                  fpbga484i
#                  fpbga672c
#                  fpbga672i
# Device:          lfe2-6se
#                  tqfp144c
#                  tqfp144i
#                  fpbga256c
#                  fpbga256i
# Device:          lfe2-70se
#                  fpbga672c
#                  fpbga672i
#                  fpbga900c
#                  fpbga900i
# Family:        latticeecp3
# Device:          lfe3-150ea
#                  fpbga672ces
#                  fpbga672ies
#                  fpbga1156ces
#                  fpbga1156ies
# Device:          lfe3-70e
#                  fpbga484ces
#                  fpbga484ies
#                  fpbga672ces
#                  fpbga672ies
#                  fpbga1156ces
#                  fpbga1156ies
# Device:          lfe3-95e
#                  fpbga484ces
#                  fpbga484ies
#                  fpbga672ces
#                  fpbga672ies
#                  fpbga1156ces
#                  fpbga1156ies
# Family:        latticesc
# Device:          lfsc3ga115e
#                  fcbga1152c
```

```
#                    fcbga1152i
#                    fcbga1704c
#                    fcbga1704i
# Device:             lfsc3ga15e
#                    fpbga256c
#                    fpbga256i
#                    fpbga900c
#                    fpbga900i
# Device:             lfsc3ga25e
#                    fpbga900c
#                    fpbga900i
#                    ffbga1020c
#                    ffbga1020i
# Device:             lfsc3ga40e
#                    ffbga1020c
#                    ffbga1020i
#                    fcbga1152c
#                    fcbga1152i
# Device:             lfsc3ga80e
#                    fcbga1152c
#                    fcbga1152i
#                    fcbga1704c
#                    fcbga1704i
# Family:           latticescm
# Device:             lfscm3ga115ep1
#                    fcbga1152c
#                    fcbga1152i
#                    fcbga1704c
#                    fcbga1704i
# Device:             lfscm3ga15ep1
#                    fpbga256c
#                    fpbga256i
#                    fpbga900c
#                    fpbga900i
# Device:             lfscm3ga25ep1
#                    fpbga900c
#                    fpbga900i
#                    ffbga1020c
```

```
#                    ffbga1020i
# Device:            lfscm3ga40ep1
#                    ffbga1020c
#                    ffbga1020i
#                    fcbga1152c
#                    fcbga1152i
# Device:            lfscm3ga80ep1
#                    fcbga1152c
#                    fcbga1152i
#                    fcbga1704c
#                    fcbga1704i
# Family:            latticexp
# Device:            lfxp10c
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
# Device:            lfxp10e
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
# Device:            lfxp15c
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
#                    fpbga484c
#                    fpbga484i
# Device:            lfxp15e
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
#                    fpbga484c
#                    fpbga484i
# Device:            lfxp20c
#                    fpbga256c
```

```
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
#                    fpbga484c
#                    fpbga484i
# Device:             lfxp20e
#                    fpbga256c
#                    fpbga256i
#                    fpbga388c
#                    fpbga388i
#                    fpbga484c
#                    fpbga484i
# Device:             lfxp3c
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
# Device:             lfxp3e
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
# Device:             lfxp6c
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    fpbga256c
#                    fpbga256i
# Device:             lfxp6e
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
```

```
#                    fpbga256c
#                    fpbga256i
# Family:            latticexp2
# Device:            laxp2-17e
#                    pqfp208e
#                    ftbga256e
# Device:            laxp2-5e
#                    tqfp144e
#                    pqfp208e
#                    ftbga256e
# Device:            laxp2-8e
#                    tqfp144e
#                    pqfp208e
#                    ftbga256e
# Device:            lfxp2-17e
#                    pqfp208c
#                    pqfp208i
#                    ftbga256c
#                    ftbga256i
#                    fpbga484c
#                    fpbga484i
# Device:            lfxp2-30e
#                    ftbga256c
#                    ftbga256i
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:            lfxp2-40e
#                    fpbga484c
#                    fpbga484i
#                    fpbga672c
#                    fpbga672i
# Device:            lfxp2-5e
#                    csbga132c
#                    csbga132i
#                    tqfp144c
#                    tqfp144i
```

```
#                    pqfp208c
#                    pqfp208i
#                    ftbga256c
#                    ftbga256i
# Device:             lfxp2-8e
#                    csbga132c
#                    csbga132i
#                    tqfp144c
#                    tqfp144i
#                    pqfp208c
#                    pqfp208i
#                    ftbga256c
#                    ftbga256i
# Family:           machxo
# Device:             lamxo1200e
#                    tqfp100e
#                    tqfp144e
#                    ftbga256e
# Device:             lamxo2280e
#                    tqfp100e
#                    tqfp144e
#                    ftbga256e
#                    ftbga324e
# Device:             lamxo256c
#                    tqfp100e
# Device:             lamxo256e
#                    tqfp100e
# Device:             lamxo640c
#                    tqfp100e
#                    tqfp144e
#                    ftbga256e
# Device:             lamxo640e
#                    tqfp100e
#                    tqfp144e
#                    ftbga256e
# Device:             lcmxo1200c
#                    tqfp100c
#                    tqfp100i
```

```
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    csbga132c
#                    csbga132i
#                    cabga256c
#                    cabga256i
# Device:             lcmxo1200e
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    csbga132c
#                    csbga132i
#                    cabga256c
#                    cabga256i
# Device:             lcmxo2280c
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    ftbga324c
#                    ftbga324i
#                    csbga132c
#                    csbga132i
#                    cabga256c
#                    cabga256i
# Device:             lcmxo2280e
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
```

```
#                    ftbga256i
#                    ftbga324c
#                    ftbga324i
#                    csbga132c
#                    csbga132i
#                    cabga256c
#                    cabga256i
# Device:            lcmxo256c
#                    tqfp100c
#                    tqfp100i
#                    csbga100c
#                    csbga100i
# Device:            lcmxo256e
#                    tqfp100c
#                    tqfp100i
#                    csbga100c
#                    csbga100i
# Device:            lcmxo640c
#                    csbga100c
#                    csbga100i
#                    csbga132c
#                    csbga132i
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    cabga256c
#                    cabga256i
# Device:            lcmxo640e
#                    csbga100c
#                    csbga100i
#                    csbga132c
#                    csbga132i
#                    tqfp100c
#                    tqfp100i
#                    tqfp144c
```

```
#                    tqfp144i
#                    ftbga256c
#                    ftbga256i
#                    cabga256c
#                    cabga256i
# ##############################################################
# Vendor:      xilinx
# ##############################################################
# ##############################################################
# Tool version:     ISE 11.5
# ##############################################################
# Family:            acr2
# Device:              xa2c128
#                    vq100
#                    cp132
# Device:              xa2c256
#                    vq100
#                    tq144
# Device:              xa2c32a
#                    vq44
# Device:              xa2c384
#                    tq144
# Device:              xa2c64a
#                    vq44
#                    vq100
# Family:            aspartan3
# Device:              xa3s1000
#                    ftg256
#                    fgg456
# Device:              xa3s1500
#                    fgg456
#                    fgg676
# Device:              xa3s200
#                    pqg208
#                    ftg256
#                    vqg100
#                    tqg144
# Device:              xa3s400
```

```
#                    pqg208
#                    ftg256
#                    fgg456
# Device:             xa3s50
#                    vqg100
#                    pqg208
# Family:           aspartan3a
# Device:             xa3s1400a
#                    fgg484
# Device:             xa3s200a
#                    ftg256
# Device:             xa3s400a
#                    ftg256
#                    fgg400
# Device:             xa3s700a
#                    fgg400
#                    fgg484
# Family:           aspartan3adsp
# Device:             xa3sd1800a
#                    csg484
#                    fgg676
# Device:             xa3sd3400a
#                    csg484
#                    fgg676
# Family:           aspartan3e
# Device:             xa3s100e
#                    vqg100
#                    cpg132
#                    tqg144
# Device:             xa3s1200e
#                    fgg400
#                    ftg256
# Device:             xa3s1600e
#                    fgg400
#                    fgg484
# Device:             xa3s250e
#                    cpg132
#                    ftg256
```

```
#                    vqg100
#                    tqg144
#                    pqg208
# Device:            xa3s500e
#                    cpg132
#                    ftg256
#                    pqg208
# Family:            aspartan6
# Device:            xa6slx16
#                    csg225
#                    ftg256
# Device:            xa6slx25
#                    fgg484
#                    ftg256
# Device:            xa6slx25t
#                    fgg484
# Device:            xa6slx4
#                    csg225
# Device:            xa6slx45
#                    fgg484
# Device:            xa6slx45t
#                    fgg484
# Device:            xa6slx9
#                    csg225
#                    ftg256
# Family:            coolrunner
# Device:            r3032xl
#                    pc44
#                    vq44
#                    cs48
# Device:            r3064xl
#                    pc44
#                    vq44
#                    cs48
#                    cp56
#                    vq100
# Device:            r3128xl
#                    vq100
```

```
#                    cs144
#                    tq144
# Device:             r3256xl
#                    tq144
#                    pq208
#                    ft256
#                    cs280
# Device:             r3384xl
#                    tq144
#                    pq208
#                    ft256
#                    fg324
# Device:             r3512xl
#                    pq208
#                    ft256
#                    fg324
# Family:           coolrunner2
# Device:             2c128
#                    vq100
#                    cv100
#                    cp132
#                    tq144
#                    di126
# Device:             2c256
#                    vq100
#                    cp132
#                    tq144
#                    pq208
#                    ft256
#                    di222
# Device:             2c32
#                    pc44
#                    vq44
#                    cp56
#                    di44
# Device:             2c32a
#                    qfg32
#                    pc44
```

```
#                    vq44
#                    cp56
#                    di44
#                    cv64
# Device:             2c384
#                    tq144
#                    pq208
#                    ft256
#                    fg324
#                    di288
# Device:             2c512
#                    pq208
#                    ft256
#                    fg324
#                    di324
# Device:             2c64
#                    pc44
#                    vq44
#                    cp56
#                    vq100
#                    di81
# Device:             2c64a
#                    pc44
#                    vq44
#                    qfg48
#                    cp56
#                    cv64
#                    vq100
#                    di81
# Family:           qrvirtex4
# Device:             xqr4vfx140
#                    cf1509
# Device:             xqr4vfx60
#                    cf1144
# Device:             xqr4vlx200
#                    cf1509
# Device:             xqr4vsx55
#                    cf1140
```

```
# Family:          qvirtex4
# Device:            xq4vfx100
#                    ff1152
# Device:            xq4vfx60
#                    ef672
# Device:            xq4vlx100
#                    ff1148
# Device:            xq4vlx160
#                    ff1148
# Device:            xq4vlx25
#                    ff668
#                    sf363
# Device:            xq4vlx60
#                    ff1148
#                    ff668
#                    ef668
# Device:            xq4vsx55
#                    ff1148
# Family:          qvirtex5
# Device:            xq5vfx100t
#                    ef1136
#                    ef1738
# Device:            xq5vfx130t
#                    ef1738
# Device:            xq5vfx200t
#                    ef1738
# Device:            xq5vfx70t
#                    ef665
#                    ef1136
# Device:            xq5vlx110
#                    ef676
#                    ef1153
# Device:            xq5vlx110t
#                    ef1136
# Device:            xq5vlx155t
#                    ef1136
# Device:            xq5vlx220t
#                    ef1738
```

```
# Device:          xq5vlx30t
#                  ff323
# Device:          xq5vlx330t
#                  ef1738
# Device:          xq5vlx85
#                  ef676
# Device:          xq5vsx240t
#                  ef1738
# Device:          xq5vsx50t
#                  ef665
# Device:          xq5vsx95t
#                  ef1136
# Family:        spartan3
# Device:          3s1000
#                  fg320
#                  fg456
#                  fg676
#                  ft256
# Device:          3s1000l
#                  ft256
#                  fg320
#                  fg456
# Device:          3s1500
#                  fg320
#                  fg456
#                  fg676
# Device:          3s1500l
#                  fg320
#                  fg456
#                  fg676
# Device:          3s200
#                  ft256
#                  pq208
#                  tq144
#                  vq100
# Device:          3s2000
#                  fg456
#                  fg676
```

```
#                    fg900
# Device:             3s400
#                    fg320
#                    fg456
#                    ft256
#                    pq208
#                    tq144
# Device:             3s4000
#                    fg676
#                    fg900
#                    fg1156
# Device:             3s4000l
#                    fg900
# Device:             3s50
#                    pq208
#                    tq144
#                    vq100
#                    cp132
# Device:             3s5000
#                    fg900
#                    fg1156
#                    fg676
# Family:           spartan3a
# Device:             3s1400a
#                    fg484
#                    fg676
#                    ft256
# Device:             3s1400an
#                    fgg676
# Device:             3s200a
#                    ft256
#                    fg320
#                    vq100
# Device:             3s200an
#                    ftg256
# Device:             3s400a
#                    ft256
#                    fg320
```

```
#                    fg400
# Device:             3s400an
#                    fgg400
# Device:             3s50a
#                    tq144
#                    ft256
#                    vq100
# Device:             3s50an
#                    tqg144
# Device:             3s700a
#                    fg400
#                    fg484
#                    ft256
# Device:             3s700an
#                    fgg484
# Family:           spartan3adsp
# Device:             3sd1800a
#                    cs484
#                    fg676
# Device:             3sd3400a
#                    fg676
#                    cs484
# Family:           spartan3e
# Device:             3s100e
#                    vq100
#                    cp132
#                    tq144
# Device:             3s1200e
#                    ft256
#                    fg320
#                    fg400
# Device:             3s1600e
#                    fg320
#                    fg400
#                    fg484
# Device:             3s250e
#                    vq100
#                    cp132
```

```
#                    tq144
#                    ft256
#                    pq208
# Device:             3s500e
#                    cp132
#                    ft256
#                    fg320
#                    pq208
#                    vq100
# Family:           spartan6
# Device:             6slx100
#                    fgg484
#                    fgg676
#                    csg484
# Device:             6slx100t
#                    fgg484
#                    fgg676
#                    fgg900
#                    csg484
# Device:             6slx150
#                    fgg484
#                    fgg676
#                    csg484
#                    fgg900
# Device:             6slx150t
#                    fgg676
#                    fgg484
#                    fgg900
#                    csg484
# Device:             6slx16
#                    csg324
#                    ftg256
#                    csg225
#                    cpg196
# Device:             6slx25
#                    csg324
#                    fgg484
#                    ftg256
```

```
# Device:          6slx25t
#                  csg324
#                  fgg484
# Device:          6slx4
#                  tqg144
#                  cpg196
#                  csg225
# Device:          6slx45
#                  fgg484
#                  csg324
#                  fgg676
#                  csg484
# Device:          6slx45t
#                  fgg484
#                  csg324
#                  csg484
# Device:          6slx75
#                  csg484
#                  fgg484
#                  fgg676
# Device:          6slx75t
#                  fgg676
#                  csg484
#                  fgg484
# Device:          6slx9
#                  csg225
#                  csg324
#                  tqg144
#                  ftg256
#                  cpg196
# Family:        spartan6l
# Device:          6slx100l
#                  fgg484
#                  fgg676
#                  csg484
# Device:          6slx150l
#                  fgg484
#                  fgg676
```

```
#                    csg484
#                    fgg900
# Device:             6slx16l
#                    csg324
#                    ftg256
#                    csg225
#                    cpg196
# Device:             6slx25l
#                    csg324
#                    fgg484
#                    ftg256
# Device:             6slx45l
#                    fgg484
#                    csg324
#                    fgg676
#                    csg484
# Device:             6slx4l
#                    tqg144
#                    cpg196
#                    csg225
# Device:             6slx75l
#                    csg484
#                    fgg484
#                    fgg676
# Device:             6slx9l
#                    csg225
#                    csg324
#                    tqg144
#                    ftg256
#                    cpg196
# Family:           virtex4
# Device:             4vfx100
#                    ff1152
#                    ff1517
# Device:             4vfx12
#                    sf363
#                    ff668
# Device:             4vfx140
```

```
#                    ff1517
# Device:             4vfx20
#                    ff672
# Device:             4vfx40
#                    ff672
#                    ff1152
# Device:             4vfx60
#                    ff672
#                    ff1152
# Device:             4vlx100
#                    ff1148
#                    ff1513
# Device:             4vlx15
#                    sf363
#                    ff668
#                    ff676
# Device:             4vlx160
#                    ff1148
#                    ff1513
# Device:             4vlx200
#                    ff1513
# Device:             4vlx25
#                    sf363
#                    ff668
#                    ff676
# Device:             4vlx40
#                    ff668
#                    ff1148
# Device:             4vlx60
#                    ff668
#                    ff1148
# Device:             4vlx80
#                    ff1148
# Device:             4vsx25
#                    ff668
# Device:             4vsx35
#                    ff668
# Device:             4vsx55
```

```
#                    ff1148
# Family:            virtex5
# Device:            5vfx100t
#                    ff1738
#                    ff1136
# Device:            5vfx130t
#                    ff1738
# Device:            5vfx200t
#                    ff1738
# Device:            5vfx30t
#                    ff665
# Device:            5vfx70t
#                    ff1136
#                    ff665
# Device:            5vlx110
#                    ff676
#                    ff1153
#                    ff1760
# Device:            5vlx110t
#                    ff1136
#                    ff1738
# Device:            5vlx155
#                    ff1153
#                    ff1760
# Device:            5vlx155t
#                    ff1136
#                    ff1738
# Device:            5vlx20t
#                    ff323
# Device:            5vlx220
#                    ff1760
# Device:            5vlx220t
#                    ff1738
# Device:            5vlx30
#                    ff324
#                    ff676
# Device:            5vlx30t
#                    ff323
```

```
#                    ff665
# Device:             5vlx330
#                    ff1760
# Device:             5vlx330t
#                    ff1738
# Device:             5vlx50
#                    ff324
#                    ff676
#                    ff1153
# Device:             5vlx50t
#                    ff1136
#                    ff665
# Device:             5vlx85
#                    ff676
#                    ff1153
# Device:             5vlx85t
#                    ff1136
# Device:             5vsx240t
#                    ff1738
# Device:             5vsx35t
#                    ff665
# Device:             5vsx50t
#                    ff1136
#                    ff665
# Device:             5vsx95t
#                    ff1136
# Device:             5vtx150t
#                    ff1156
#                    ff1759
# Device:             5vtx240t
#                    ff1759
# Family:           virtex6
# Device:             6vcx130t
#                    ff484
#                    ff784
#                    ff1156
# Device:             6vcx195t
#                    ff784
```

```
#                    ff1156
# Device:             6vcx240t
#                    ff784
#                    ff1156
# Device:             6vcx75t
#                    ff484
#                    ff784
# Device:             6vhx250t
#                    ff1154
# Device:             6vhx255t
#                    ff1155
#                    ff1923
# Device:             6vhx380t
#                    ff1155
#                    ff1154
#                    ff1923
#                    ff1924
# Device:             6vhx565t
#                    ff1923
#                    ff1924
# Device:             6vlx130t
#                    ff484
#                    ff784
#                    ff1156
# Device:             6vlx195t
#                    ff784
#                    ff1156
# Device:             6vlx240t
#                    ff784
#                    ff1156
#                    ff1759
# Device:             6vlx365t
#                    ff1156
#                    ff1759
# Device:             6vlx550t
#                    ff1759
#                    ff1760
# Device:             6vlx75t
```

```
#                    ff484
#                    ff784
# Device:            6vlx760
#                    ff1760
# Device:            6vsx315t
#                    ff1156
#                    ff1759
# Device:            6vsx475t
#                    ff1156
#                    ff1759
# Family:            virtex6l
# Device:            6vlx130tl
#                    ff484
#                    ff784
#                    ff1156
# Device:            6vlx195tl
#                    ff784
#                    ff1156
# Device:            6vlx240tl
#                    ff784
#                    ff1156
#                    ff1759
# Device:            6vlx365tl
#                    ff1156
#                    ff1759
# Device:            6vlx550tl
#                    ff1759
#                    ff1760
# Device:            6vlx75tl
#                    ff484
#                    ff784
# Device:            6vlx760l
#                    ff1760
# Device:            6vsx315tl
#                    ff1156
#                    ff1759
# Device:            6vsx475tl
#                    ff1156
```

```
#                    ff1759
# Family:          xa9500xl
# Device:            xa9536xl
#                    vq44
# Device:            xa9572xl
#                    vq44
#                    vq64
#                    tq100
# Family:          xc9500
# Device:            95108
#                    pc84
#                    pq100
#                    tq100
#                    pq160
# Device:            95144
#                    pq100
#                    tq100
#                    pq160
# Device:            95216
#                    pq160
#                    hq208
#                    bg352
# Device:            95288
#                    hq208
#                    bg352
# Device:            9536
#                    pc44
#                    vq44
#                    cs48
# Device:            9572
#                    pc44
#                    pc84
#                    pq100
#                    tq100
# Family:          xc9500xl
# Device:            95144xl
#                    tq100
#                    tq144
```

```
#                    cs144
# Device:            95288xl
#                    tq144
#                    pq208
#                    cs280
#                    bg256
#                    fg256
# Device:            9536xl
#                    pc44
#                    vq44
#                    cs48
#                    vq64
# Device:            9572xl
#                    pc44
#                    vq44
#                    cs48
#                    vq64
#                    tq100
# ##############################################################
# Tool version:      ISE 11.4
# ##############################################################
# Family:            acr2
# Device:            xa2c128
#                    vq100
#                    cp132
# Device:            xa2c256
#                    vq100
#                    tq144
# Device:            xa2c32a
#                    vq44
# Device:            xa2c384
#                    tq144
# Device:            xa2c64a
#                    vq44
#                    vq100
# Family:            aspartan3
# Device:            xa3s1000
#                    ftg256
```

```
#                    fgg456
# Device:             xa3s1500
#                    fgg456
#                    fgg676
# Device:             xa3s200
#                    pqg208
#                    ftg256
#                    vqg100
#                    tqg144
# Device:             xa3s400
#                    pqg208
#                    ftg256
#                    fgg456
# Device:             xa3s50
#                    vqg100
#                    pqg208
# Family:           aspartan3a
# Device:             xa3s1400a
#                    fgg484
# Device:             xa3s200a
#                    ftg256
# Device:             xa3s400a
#                    ftg256
#                    fgg400
# Device:             xa3s700a
#                    fgg400
#                    fgg484
# Family:           aspartan3adsp
# Device:             xa3sd1800a
#                    csg484
#                    fgg676
# Device:             xa3sd3400a
#                    csg484
#                    fgg676
# Family:           aspartan3e
# Device:             xa3s100e
#                    vqg100
#                    cpg132
```

```
#                    tqg144
# Device:             xa3s1200e
#                    fgg400
#                    ftg256
# Device:             xa3s1600e
#                    fgg400
#                    fgg484
# Device:             xa3s250e
#                    cpg132
#                    ftg256
#                    vqg100
#                    tqg144
#                    pqg208
# Device:             xa3s500e
#                    cpg132
#                    ftg256
#                    pqg208
# Family:           aspartan6
# Device:             xa6slx16
#                    csg225
#                    ftg256
# Device:             xa6slx25
#                    fgg484
#                    ftg256
# Device:             xa6slx25t
#                    fgg484
# Device:             xa6slx4
#                    csg225
# Device:             xa6slx45
#                    fgg484
# Device:             xa6slx45t
#                    fgg484
# Device:             xa6slx9
#                    csg225
#                    ftg256
# Family:           coolrunner
# Device:             r3032xl
#                    pc44
```

```
#                    vq44
#                    cs48
# Device:             r3064xl
#                    pc44
#                    vq44
#                    cs48
#                    cp56
#                    vq100
# Device:             r3128xl
#                    vq100
#                    cs144
#                    tq144
# Device:             r3256xl
#                    tq144
#                    pq208
#                    ft256
#                    cs280
# Device:             r3384xl
#                    tq144
#                    pq208
#                    ft256
#                    fg324
# Device:             r3512xl
#                    pq208
#                    ft256
#                    fg324
# Family:           coolrunner2
# Device:             2c128
#                    vq100
#                    cv100
#                    cp132
#                    tq144
#                    di126
# Device:             2c256
#                    vq100
#                    cp132
#                    tq144
#                    pq208
```

```
#                    ft256
#                    di222
# Device:             2c32
#                    pc44
#                    vq44
#                    cp56
#                    di44
# Device:             2c32a
#                    qfg32
#                    pc44
#                    vq44
#                    cp56
#                    di44
#                    cv64
# Device:             2c384
#                    tq144
#                    pq208
#                    ft256
#                    fg324
#                    di288
# Device:             2c512
#                    pq208
#                    ft256
#                    fg324
#                    di324
# Device:             2c64
#                    pc44
#                    vq44
#                    cp56
#                    vq100
#                    di81
# Device:             2c64a
#                    pc44
#                    vq44
#                    qfg48
#                    cp56
#                    cv64
#                    vq100
```

```
#                    di81
# Family:          qrvirtex4
# Device:            xqr4vfx140
#                    cf1509
# Device:            xqr4vfx60
#                    cf1144
# Device:            xqr4vlx200
#                    cf1509
# Device:            xqr4vsx55
#                    cf1140
# Family:          qvirtex4
# Device:            xq4vfx100
#                    ff1152
# Device:            xq4vfx60
#                    ef672
# Device:            xq4vlx100
#                    ff1148
# Device:            xq4vlx160
#                    ff1148
# Device:            xq4vlx25
#                    ff668
#                    sf363
# Device:            xq4vlx60
#                    ff1148
#                    ff668
#                    ef668
# Device:            xq4vsx55
#                    ff1148
# Family:          qvirtex5
# Device:            xq5vfx100t
#                    ef1136
#                    ef1738
# Device:            xq5vfx130t
#                    ef1738
# Device:            xq5vfx200t
#                    ef1738
# Device:            xq5vfx70t
#                    ef665
```

```
#                    ef1136
# Device:             xq5vlx110
#                    ef676
#                    ef1153
# Device:             xq5vlx110t
#                    ef1136
# Device:             xq5vlx155t
#                    ef1136
# Device:             xq5vlx220t
#                    ef1738
# Device:             xq5vlx30t
#                    ff323
# Device:             xq5vlx330t
#                    ef1738
# Device:             xq5vlx85
#                    ef676
# Device:             xq5vsx240t
#                    ef1738
# Device:             xq5vsx50t
#                    ef665
# Device:             xq5vsx95t
#                    ef1136
# Family:           spartan3
# Device:             3s1000
#                    fg320
#                    fg456
#                    fg676
#                    ft256
# Device:             3s1000l
#                    ft256
#                    fg320
#                    fg456
# Device:             3s1500
#                    fg320
#                    fg456
#                    fg676
# Device:             3s1500l
#                    fg320
```

```
#                    fg456
#                    fg676
# Device:             3s200
#                    ft256
#                    pq208
#                    tq144
#                    vq100
# Device:             3s2000
#                    fg456
#                    fg676
#                    fg900
# Device:             3s400
#                    fg320
#                    fg456
#                    ft256
#                    pq208
#                    tq144
# Device:             3s4000
#                    fg676
#                    fg900
#                    fg1156
# Device:             3s4000l
#                    fg900
# Device:             3s50
#                    pq208
#                    tq144
#                    vq100
#                    cp132
# Device:             3s5000
#                    fg900
#                    fg1156
#                    fg676
# Family:           spartan3a
# Device:             3s1400a
#                    fg484
#                    fg676
#                    ft256
# Device:             3s1400an
```

```
#                    fgg676
# Device:             3s200a
#                    ft256
#                    fg320
#                    vq100
# Device:             3s200an
#                    ftg256
# Device:             3s400a
#                    ft256
#                    fg320
#                    fg400
# Device:             3s400an
#                    fgg400
# Device:             3s50a
#                    tq144
#                    ft256
#                    vq100
# Device:             3s50an
#                    tqg144
# Device:             3s700a
#                    fg400
#                    fg484
#                    ft256
# Device:             3s700an
#                    fgg484
# Family:           spartan3adsp
# Device:             3sd1800a
#                    cs484
#                    fg676
# Device:             3sd3400a
#                    fg676
#                    cs484
# Family:           spartan3e
# Device:             3s100e
#                    vq100
#                    cp132
#                    tq144
# Device:             3s1200e
```

```
#                    ft256
#                    fg320
#                    fg400
# Device:             3s1600e
#                    fg320
#                    fg400
#                    fg484
# Device:             3s250e
#                    vq100
#                    cp132
#                    tq144
#                    ft256
#                    pq208
# Device:             3s500e
#                    cp132
#                    ft256
#                    fg320
#                    pq208
#                    vq100
# Family:           spartan6
# Device:             6slx100
#                    fgg484
#                    fgg676
#                    csg484
# Device:             6slx100t
#                    fgg484
#                    fgg676
#                    fgg900
#                    csg484
# Device:             6slx150
#                    fgg484
#                    fgg676
#                    csg484
#                    fgg900
# Device:             6slx150t
#                    fgg676
#                    fgg484
#                    fgg900
```

```
#                    csg484
# Device:             6slx16
#                    csg324
#                    ftg256
#                    csg225
#                    cpg196
# Device:             6slx25
#                    csg324
#                    fgg484
#                    ftg256
# Device:             6slx25t
#                    csg324
#                    fgg484
# Device:             6slx4
#                    tqg144
#                    cpg196
#                    csg225
# Device:             6slx45
#                    fgg484
#                    csg324
#                    fgg676
#                    csg484
# Device:             6slx45t
#                    fgg484
#                    csg324
#                    csg484
# Device:             6slx75
#                    csg484
#                    fgg484
#                    fgg676
# Device:             6slx75t
#                    fgg676
#                    csg484
#                    fgg484
# Device:             6slx9
#                    csg225
#                    csg324
#                    tqg144
```

```
#                    ftg256
#                    cpg196
# Family:          spartan6l
# Device:            6slx100l
#                    fgg484
#                    fgg676
#                    csg484
# Device:            6slx150l
#                    fgg484
#                    fgg676
#                    csg484
#                    fgg900
# Device:            6slx16l
#                    csg324
#                    ftg256
#                    csg225
#                    cpg196
# Device:            6slx25l
#                    csg324
#                    fgg484
#                    ftg256
# Device:            6slx45l
#                    fgg484
#                    csg324
#                    fgg676
#                    csg484
# Device:            6slx4l
#                    tqg144
#                    cpg196
#                    csg225
# Device:            6slx75l
#                    csg484
#                    fgg484
#                    fgg676
# Device:            6slx9l
#                    csg225
#                    csg324
#                    tqg144
```

```
#                    ftg256
#                    cpg196
# Family:            virtex4
# Device:            4vfx100
#                    ff1152
#                    ff1517
# Device:            4vfx12
#                    sf363
#                    ff668
# Device:            4vfx140
#                    ff1517
# Device:            4vfx20
#                    ff672
# Device:            4vfx40
#                    ff672
#                    ff1152
# Device:            4vfx60
#                    ff672
#                    ff1152
# Device:            4vlx100
#                    ff1148
#                    ff1513
# Device:            4vlx15
#                    sf363
#                    ff668
#                    ff676
# Device:            4vlx160
#                    ff1148
#                    ff1513
# Device:            4vlx200
#                    ff1513
# Device:            4vlx25
#                    sf363
#                    ff668
#                    ff676
# Device:            4vlx40
#                    ff668
#                    ff1148
```

```
# Device:          4vlx60
#                  ff668
#                  ff1148
# Device:          4vlx80
#                  ff1148
# Device:          4vsx25
#                  ff668
# Device:          4vsx35
#                  ff668
# Device:          4vsx55
#                  ff1148
# Family:        virtex5
# Device:          5vfx100t
#                  ff1738
#                  ff1136
# Device:          5vfx130t
#                  ff1738
# Device:          5vfx200t
#                  ff1738
# Device:          5vfx30t
#                  ff665
# Device:          5vfx70t
#                  ff1136
#                  ff665
# Device:          5vlx110
#                  ff676
#                  ff1153
#                  ff1760
# Device:          5vlx110t
#                  ff1136
#                  ff1738
# Device:          5vlx155
#                  ff1153
#                  ff1760
# Device:          5vlx155t
#                  ff1136
#                  ff1738
# Device:          5vlx20t
```

```
#                    ff323
# Device:             5vlx220
#                    ff1760
# Device:             5vlx220t
#                    ff1738
# Device:             5vlx30
#                    ff324
#                    ff676
# Device:             5vlx30t
#                    ff323
#                    ff665
# Device:             5vlx330
#                    ff1760
# Device:             5vlx330t
#                    ff1738
# Device:             5vlx50
#                    ff324
#                    ff676
#                    ff1153
# Device:             5vlx50t
#                    ff1136
#                    ff665
# Device:             5vlx85
#                    ff676
#                    ff1153
# Device:             5vlx85t
#                    ff1136
# Device:             5vsx240t
#                    ff1738
# Device:             5vsx35t
#                    ff665
# Device:             5vsx50t
#                    ff1136
#                    ff665
# Device:             5vsx95t
#                    ff1136
# Device:             5vtx150t
#                    ff1156
```

```
#                    ff1759
# Device:            5vtx240t
#                    ff1759
# Family:            virtex6
# Device:            6vcx130t
#                    ff484
#                    ff784
#                    ff1156
# Device:            6vcx195t
#                    ff784
#                    ff1156
# Device:            6vcx240t
#                    ff784
#                    ff1156
# Device:            6vcx75t
#                    ff484
#                    ff784
# Device:            6vhx250t
#                    ff1154
# Device:            6vhx255t
#                    ff1155
#                    ff1923
# Device:            6vhx380t
#                    ff1155
#                    ff1154
#                    ff1923
#                    ff1924
# Device:            6vhx565t
#                    ff1923
#                    ff1924
# Device:            6vlx130t
#                    ff484
#                    ff784
#                    ff1156
# Device:            6vlx195t
#                    ff784
#                    ff1156
# Device:            6vlx240t
```

```
#                    ff784
#                    ff1156
#                    ff1759
# Device:            6vlx365t
#                    ff1156
#                    ff1759
# Device:            6vlx550t
#                    ff1759
#                    ff1760
# Device:            6vlx75t
#                    ff484
#                    ff784
# Device:            6vlx760
#                    ff1760
# Device:            6vsx315t
#                    ff1156
#                    ff1759
# Device:            6vsx475t
#                    ff1156
#                    ff1759
# Family:            virtex6l
# Device:            6vlx130tl
#                    ff484
#                    ff784
#                    ff1156
# Device:            6vlx195tl
#                    ff784
#                    ff1156
# Device:            6vlx240tl
#                    ff784
#                    ff1156
#                    ff1759
# Device:            6vlx365tl
#                    ff1156
#                    ff1759
# Device:            6vlx550tl
#                    ff1759
#                    ff1760
```

```
# Device:          6vlx75tl
#                  ff484
#                  ff784
# Device:          6vlx760l
#                  ff1760
# Device:          6vsx315tl
#                  ff1156
#                  ff1759
# Device:          6vsx475tl
#                  ff1156
#                  ff1759
# Family:        xa9500xl
# Device:          xa9536xl
#                  vq44
# Device:          xa9572xl
#                  vq44
#                  vq64
#                  tq100
# Family:        xc9500
# Device:          95108
#                  pc84
#                  pq100
#                  tq100
#                  pq160
# Device:          95144
#                  pq100
#                  tq100
#                  pq160
# Device:          95216
#                  pq160
#                  hq208
#                  bg352
# Device:          95288
#                  hq208
#                  bg352
# Device:          9536
#                  pc44
#                  vq44
```

```
#                    cs48
# Device:            9572
#                    pc44
#                    pc84
#                    pq100
#                    tq100
# Family:            xc9500xl
# Device:            95144xl
#                    tq100
#                    tq144
#                    cs144
# Device:            95288xl
#                    tq144
#                    pq208
#                    cs280
#                    bg256
#                    fg256
# Device:            9536xl
#                    pc44
#                    vq44
#                    cs48
#                    vq64
# Device:            9572xl
#                    pc44
#                    vq44
#                    cs48
#                    vq64
#                    tq100
# ##############################################################
# Tool version:      ISE 10.1
# ##############################################################
# Family:            acr2
# Device:            xa2c128
#                    vq100
#                    cp132
# Device:            xa2c256
#                    vq100
#                    tq144
```

```
# Device:          xa2c32a
#                  vq44
# Device:          xa2c384
#                  tq144
# Device:          xa2c64a
#                  vq44
#                  vq100
# Family:        aspartan2e
# Device:          xa2s100e
#                  tq144
# Device:          xa2s150e
#                  ft256
# Device:          xa2s200e
#                  ft256
# Device:          xa2s300e
#                  ft256
# Device:          xa2s50e
#                  tq144
# Family:        aspartan3
# Device:          xa3s1000
#                  ftg256
#                  fgg456
# Device:          xa3s1500
#                  fgg456
#                  fgg676
# Device:          xa3s200
#                  pqg208
#                  ftg256
#                  vqg100
#                  tqg144
# Device:          xa3s400
#                  pqg208
#                  ftg256
#                  fgg456
# Device:          xa3s50
#                  vqg100
#                  pqg208
# Family:        aspartan3a
```

```
# Device:          xa3s1400a
#                  fgg484
# Device:          xa3s200a
#                  ftg256
# Device:          xa3s400a
#                  ftg256
#                  fgg400
# Device:          xa3s700a
#                  fgg400
#                  fgg484
# Family:        aspartan3adsp
# Device:          xa3sd1800a
#                  csg484
#                  fgg676
# Device:          xa3sd3400a
#                  csg484
#                  fgg676
# Family:        aspartan3e
# Device:          xa3s100e
#                  vqg100
#                  cpg132
#                  tqg144
# Device:          xa3s1200e
#                  fgg400
#                  ftg256
# Device:          xa3s1600e
#                  fgg400
#                  fgg484
# Device:          xa3s250e
#                  cpg132
#                  ftg256
#                  vqg100
#                  tqg144
#                  pqg208
# Device:          xa3s500e
#                  cpg132
#                  ftg256
#                  pqg208
```

```
# Family:          coolrunner
# Device:            r3032xl
#                    pc44
#                    vq44
#                    cs48
# Device:            r3064xl
#                    pc44
#                    vq44
#                    cs48
#                    cp56
#                    vq100
# Device:            r3128xl
#                    vq100
#                    cs144
#                    tq144
# Device:            r3256xl
#                    tq144
#                    pq208
#                    ft256
#                    cs280
# Device:            r3384xl
#                    tq144
#                    pq208
#                    ft256
#                    fg324
# Device:            r3512xl
#                    pq208
#                    ft256
#                    fg324
# Family:          coolrunner2
# Device:            2c128
#                    vq100
#                    cv100
#                    cp132
#                    tq144
#                    di126
# Device:            2c256
#                    vq100
```

```
#                    cp132
#                    tq144
#                    pq208
#                    ft256
#                    di222
# Device:             2c32
#                    pc44
#                    vq44
#                    cp56
#                    di44
# Device:             2c32a
#                    qfg32
#                    pc44
#                    vq44
#                    cp56
#                    di44
#                    cv64
# Device:             2c384
#                    tq144
#                    pq208
#                    ft256
#                    fg324
#                    di288
# Device:             2c512
#                    pq208
#                    ft256
#                    fg324
#                    di324
# Device:             2c64
#                    pc44
#                    vq44
#                    cp56
#                    vq100
#                    di81
# Device:             2c64a
#                    pc44
#                    vq44
#                    qfg48
```

```
#                    cp56
#                    cv64
#                    vq100
#                    di81
# Family:          qrvirtex
# Device:            xqvr1000
#                    cg560
# Device:            xqvr300
#                    cb228
# Device:            xqvr600
#                    cb228
# Family:          qrvirtex2
# Device:            xqr2v1000
#                    bg575
# Device:            xqr2v3000
#                    cg717
# Device:            xqr2v6000
#                    cf1144
# Family:          qrvirtex4
# Device:            xqr4vfx140
#                    cf1509
# Device:            xqr4vfx60
#                    cf1144
# Device:            xqr4vlx200
#                    cf1509
# Device:            xqr4vsx55
#                    cf1140
# Family:          qvirtex
# Device:            xqv100
#                    bg256
#                    cb228
#                    pq240
# Device:            xqv1000
#                    bg560
#                    cg560
# Device:            xqv300
#                    bg352
#                    bg432
```

```
#                    cb228
#                    pq240
# Device:             xqv600
#                    bg432
#                    cb228
#                    hq240
# Family:          qvirtex2
# Device:             xq2v1000
#                    bg575
#                    fg456
# Device:             xq2v3000
#                    bg728
#                    cg717
# Device:             xq2v6000
#                    cf1144
#                    ef1152
#                    ef957
# Family:          qvirtex2p
# Device:             xq2vp40
#                    fg676
#                    ff1152
# Device:             xq2vp70
#                    ff1704
#                    ef1704
# Family:          qvirtex4
# Device:             xq4vfx100
#                    ff1152
# Device:             xq4vfx60
#                    ef672
# Device:             xq4vlx100
#                    ff1148
# Device:             xq4vlx160
#                    ff1148
# Device:             xq4vlx25
#                    ff668
#                    sf363
# Device:             xq4vlx60
#                    ff1148
```

```
#                    ff668
#                    ef668
# Device:            xq4vsx55
#                    ff1148
# Family:            qvirtexe
# Device:            xqv1000e
#                    bg560
#                    cg560
# Device:            xqv2000e
#                    bg560
#                    fg1156
# Device:            xqv600e
#                    bg432
# Family:            spartan2
# Device:            2s100
#                    tq144
#                    fg256
#                    fg456
#                    pq208
# Device:            2s15
#                    cs144
#                    tq144
#                    vq100
# Device:            2s150
#                    fg456
#                    fg256
#                    pq208
# Device:            2s200
#                    fg256
#                    fg456
#                    pq208
# Device:            2s30
#                    cs144
#                    tq144
#                    pq208
#                    vq100
# Device:            2s50
#                    tq144
```

```
#                    fg256
#                    pq208
# Family:          spartan2e
# Device:            2s100e
#                    ft256
#                    fg456
#                    pq208
#                    tq144
# Device:            2s150e
#                    ft256
#                    fg456
#                    pq208
# Device:            2s200e
#                    ft256
#                    fg456
#                    pq208
# Device:            2s300e
#                    ft256
#                    fg456
#                    pq208
# Device:            2s400e
#                    ft256
#                    fg456
#                    fg676
# Device:            2s50e
#                    ft256
#                    pq208
#                    tq144
# Device:            2s600e
#                    fg456
#                    fg676
# Family:          spartan3
# Device:            3s1000
#                    fg320
#                    fg456
#                    fg676
#                    ft256
# Device:            3s1000l
```

```
#                    ft256
#                    fg320
#                    fg456
# Device:            3s1500
#                    fg320
#                    fg456
#                    fg676
# Device:            3s1500l
#                    fg320
#                    fg456
#                    fg676
# Device:            3s200
#                    ft256
#                    pq208
#                    tq144
#                    vq100
# Device:            3s2000
#                    fg456
#                    fg676
#                    fg900
# Device:            3s400
#                    fg320
#                    fg456
#                    ft256
#                    pq208
#                    tq144
# Device:            3s4000
#                    fg676
#                    fg900
#                    fg1156
# Device:            3s4000l
#                    fg900
# Device:            3s50
#                    pq208
#                    tq144
#                    vq100
#                    cp132
# Device:            3s5000
```

```
#                    fg900
#                    fg1156
#                    fg676
# Family:            spartan3a
# Device:            3s1400a
#                    fg484
#                    fg676
#                    ft256
# Device:            3s1400an
#                    fgg676
# Device:            3s200a
#                    ft256
#                    fg320
#                    vq100
# Device:            3s200an
#                    ftg256
# Device:            3s400a
#                    ft256
#                    fg320
#                    fg400
# Device:            3s400an
#                    fgg400
# Device:            3s50a
#                    tq144
#                    ft256
#                    vq100
# Device:            3s50an
#                    tqg144
# Device:            3s700a
#                    fg400
#                    fg484
#                    ft256
# Device:            3s700an
#                    fgg484
# Family:            spartan3adsp
# Device:            3sd1800a
#                    cs484
#                    fg676
```

```
# Device:          3sd3400a
#                  fg676
#                  cs484
# Family:        spartan3e
# Device:          3s100e
#                  vq100
#                  cp132
#                  tq144
# Device:          3s1200e
#                  ft256
#                  fg320
#                  fg400
# Device:          3s1600e
#                  fg320
#                  fg400
#                  fg484
# Device:          3s250e
#                  vq100
#                  cp132
#                  tq144
#                  ft256
#                  pq208
# Device:          3s500e
#                  cp132
#                  ft256
#                  fg320
#                  pq208
#                  vq100
# Family:        virtex
# Device:          v100
#                  bg256
#                  cs144
#                  fg256
#                  pq240
#                  tq144
# Device:          v1000
#                  bg560
#                  fg680
```

```
# Device:          v150
#                  bg256
#                  bg352
#                  fg256
#                  fg456
#                  pq240
# Device:          v200
#                  bg256
#                  bg352
#                  fg256
#                  fg456
#                  pq240
# Device:          v300
#                  bg352
#                  bg432
#                  fg456
#                  pq240
# Device:          v400
#                  bg432
#                  bg560
#                  fg676
#                  hq240
# Device:          v50
#                  bg256
#                  cs144
#                  fg256
#                  pq240
#                  tq144
# Device:          v600
#                  bg432
#                  bg560
#                  fg676
#                  fg680
#                  hq240
# Device:          v800
#                  bg432
#                  bg560
#                  fg676
```

```
#                    fg680
#                    hq240
# Family:          virtex2
# Device:            2v1000
#                    bg575
#                    ff896
#                    fg256
#                    fg456
# Device:            2v1500
#                    bg575
#                    ff896
#                    fg676
# Device:            2v2000
#                    bf957
#                    bg575
#                    ff896
#                    fg676
# Device:            2v250
#                    cs144
#                    fg256
#                    fg456
# Device:            2v3000
#                    bf957
#                    bg728
#                    ff1152
#                    fg676
# Device:            2v40
#                    cs144
#                    fg256
# Device:            2v4000
#                    bf957
#                    ff1152
#                    ff1517
# Device:            2v500
#                    fg256
#                    fg456
# Device:            2v6000
#                    bf957
```

```
#                    ff1152
#                    ff1517
# Device:            2v80
#                    cs144
#                    fg256
# Device:            2v8000
#                    ff1152
#                    ff1517
# Family:            virtex2p
# Device:            2vp100
#                    ff1696
#                    ff1704
# Device:            2vp2
#                    fg256
#                    fg456
#                    ff672
# Device:            2vp20
#                    fg676
#                    ff896
#                    ff1152
# Device:            2vp30
#                    fg676
#                    ff896
#                    ff1152
# Device:            2vp4
#                    fg256
#                    fg456
#                    ff672
# Device:            2vp40
#                    fg676
#                    ff1148
#                    ff1152
# Device:            2vp50
#                    ff1148
#                    ff1152
#                    ff1517
# Device:            2vp7
#                    fg456
```

```
#                    ff672
#                    ff896
# Device:             2vp70
#                    ff1517
#                    ff1704
# Device:             2vpx20
#                    ff896
# Device:             2vpx70
#                    ff1704
# Family:           virtex4
# Device:             4vfx100
#                    ff1152
#                    ff1517
# Device:             4vfx12
#                    sf363
#                    ff668
# Device:             4vfx140
#                    ff1517
# Device:             4vfx20
#                    ff672
# Device:             4vfx40
#                    ff672
#                    ff1152
# Device:             4vfx60
#                    ff672
#                    ff1152
# Device:             4vlx100
#                    ff1148
#                    ff1513
# Device:             4vlx15
#                    sf363
#                    ff668
#                    ff676
# Device:             4vlx160
#                    ff1148
#                    ff1513
# Device:             4vlx200
#                    ff1513
```

```
# Device:          4vlx25
#                  sf363
#                  ff668
#                  ff676
# Device:          4vlx40
#                  ff668
#                  ff1148
# Device:          4vlx60
#                  ff668
#                  ff1148
# Device:          4vlx80
#                  ff1148
# Device:          4vsx25
#                  ff668
# Device:          4vsx35
#                  ff668
# Device:          4vsx55
#                  ff1148
# Family:        virtex5
# Device:          5vfx100t
#                  ff1738
#                  ff1136
# Device:          5vfx130t
#                  ff1738
# Device:          5vfx200t
#                  ff1738
# Device:          5vfx30t
#                  ff665
# Device:          5vfx70t
#                  ff1136
#                  ff665
# Device:          5vlx110
#                  ff676
#                  ff1153
#                  ff1760
# Device:          5vlx110t
#                  ff1136
#                  ff1738
```

```
# Device:          5vlx155
#                  ff1153
#                  ff1760
# Device:          5vlx155t
#                  ff1136
#                  ff1738
# Device:          5vlx20t
#                  ff323
# Device:          5vlx220
#                  ff1760
# Device:          5vlx220t
#                  ff1738
# Device:          5vlx30
#                  ff324
#                  ff676
# Device:          5vlx30t
#                  ff323
#                  ff665
# Device:          5vlx330
#                  ff1760
# Device:          5vlx330t
#                  ff1738
# Device:          5vlx50
#                  ff324
#                  ff676
#                  ff1153
# Device:          5vlx50t
#                  ff1136
#                  ff665
# Device:          5vlx85
#                  ff676
#                  ff1153
# Device:          5vlx85t
#                  ff1136
# Device:          5vsx240t
#                  ff1738
# Device:          5vsx35t
#                  ff665
```

```
# Device:          5vsx50t
#                  ff1136
#                  ff665
# Device:          5vsx95t
#                  ff1136
# Device:          5vtx150t
#                  ff1156
#                  ff1759
# Device:          5vtx240t
#                  ff1759
# Family:        virtexe
# Device:          v1000e
#                  bg560
#                  fg680
#                  fg860
#                  fg900
#                  fg1156
#                  hq240
# Device:          v100e
#                  bg352
#                  cs144
#                  fg256
#                  pq240
# Device:          v1600e
#                  bg560
#                  fg680
#                  fg860
#                  fg900
#                  fg1156
# Device:          v2000e
#                  bg560
#                  fg680
#                  fg860
#                  fg1156
# Device:          v200e
#                  bg352
#                  cs144
#                  fg256
```

```
#                    fg456
#                    pq240
# Device:             v2600e
#                    fg1156
# Device:             v300e
#                    bg352
#                    bg432
#                    fg256
#                    fg456
#                    pq240
# Device:             v3200e
#                    fg1156
# Device:             v400e
#                    bg432
#                    bg560
#                    fg676
#                    pq240
# Device:             v405e
#                    bg560
#                    fg676
# Device:             v50e
#                    cs144
#                    pq240
#                    fg256
# Device:             v600e
#                    bg432
#                    bg560
#                    fg676
#                    fg680
#                    fg900
#                    hq240
# Device:             v812e
#                    bg560
#                    fg900
# Family:           xa9500xl
# Device:             xa95144xl
#                    cs144
# Device:             xa9536xl
```

```
#                    vq44
# Device:             xa9572xl
#                    vq44
#                    vq64
#                    tq100
# Family:           xc9500
# Device:             95108
#                    pc84
#                    pq100
#                    tq100
#                    pq160
# Device:             95144
#                    pq100
#                    tq100
#                    pq160
# Device:             95216
#                    pq160
#                    hq208
#                    bg352
# Device:             95288
#                    hq208
#                    bg352
# Device:             9536
#                    pc44
#                    vq44
#                    cs48
# Device:             9572
#                    pc44
#                    pc84
#                    pq100
#                    tq100
# Family:           xc9500xl
# Device:             95144xl
#                    tq100
#                    tq144
#                    cs144
# Device:             95288xl
#                    tq144
```

```
#                    pq208
#                    cs280
#                    bg256
#                    fg256
# Device:             9536xl
#                    pc44
#                    vq44
#                    cs48
#                    vq64
# Device:             9572xl
#                    pc44
#                    vq44
#                    cs48
#                    vq64
#                    tq100
# Family:           xc9500xv
# Device:             95144xv
#                    tq100
#                    tq144
#                    cs144
# Device:             95288xv
#                    tq144
#                    pq208
#                    cs280
#                    fg256
# Device:             9536xv
#                    pc44
#                    vq44
#                    cs48
# Device:             9572xv
#                    pc44
#                    vq44
#                    cs48
#                    tq100
```