

# MAJIC Supported Cores and Processors

June 27, 2008

Key:	All MAJIC JTAG Probes	Support all processors listed, including memory test, flash programming, startup and target initialization					
	MAJIC-LT	Supports EDGE and Linux/GDB via MDI and MDIserver					
	MAJIC-LX	Includes OpenDebug software for supported environments, programmable JTAG clock 0 to 40 MHz, auto power sense for target I/O from 1.2V to 3.3V					
	MAJIC-MT	All LX features, plus trace buffer upload for the Intel XScale microarchitecture, and multi-core support					
	SP	Service Pack releases for processor support added after the last production release					
	Validation	V = formal validation by Mentor; v = validation by usage					
	(blank)	Blank fields for Release and Cable indicate processor is on roadmap but support is not released (contact sales)					
Source	Processor or SOC Type	CPU Core	Evaluation Board or Reference Platform	Validation	First Release Version	Reference Board JTAG Cable	
ARM cores	Licensee ASIC or ASSP	7EJ-S	OEM Target	v	2.4a	See processor vendor reference platform documentation. Usually CA-ARM20	
		7TDMI	Evaluator-7T, and ARM Integrator family	V	<1.1		
		7TDMI-S		V	1.1		
		720T		V	<1.1		
		9TDMI		V	<1.1		
		9E-S		V	<1.1		
		920T		V	<1.1		
		922T		V	1.1		
		926EJ-S		V	2.1a		
		940T		V	<1.1		
		946E-S		V	1.1		
		966E-S		V	<1.1		
		968E-S		V	2.2		
		1136J(F)-S		ARM CM i.MX31ADS OMAP2430	V		2.4a
		1156T2(F)-S		ARM Integrator	V		2.4a
1176JZ(F)-S	Samsung	V	2.4a				
ARM11 MPCore	ARM Emulation board	V	2.4a				
Analog Devices (Products acquired by Ikanos)	AD6489	Lexra 4180 & 4189	ADSL Router, Residential Gateway	V	2.0a	CA-EJ12 or CA-EJ52	
	AD6680			v			
	AD6681			v			
	AD6834			v			
	AD6843			v			
	AD6844			v			
	AD6846			v			
	AD6847			v			
Atmel	AT91M55800A	ARM7TDMI	AT91EB55	V		CA-ARM20	
	AT91R40807						
	AT91RM9200	ARM 920T	AT91RM9200-EK	V, v	2.3b	CA-ARM20	
	AT91SAM7	ARM7TDMI-S					
	AT91SAM926x	ARM 926EJ-S	AT91SAM9261-EK	V	SP	CA-ARM20	



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Broadcom	BCM1100	BMIPS32 (MIPS Arch. Lic.)	BCM91100 VOIP Phone	V	<1.1	CA-J10	
	BCM1101		BCM91101 IP Phone	V	2.0b	CA-J12	
	BCM3345		Cable Modems	V, v	1.1	CA-J10	
	BCM3349			V	2.3a	CA-J10	
	BCM3350			V, v	1.1	CA-J10	
	BCM3360			V, v	1.1	CA-J10	
	BCM4320		WLAN	V, v	2.2a	CA-J12	
	BCM4702		Wireless Network Routers	V, v	2.0b	CA-J12	
	BCM4704			V, v	2.1a	CA-J10	
	BCM4710			V, v	2.0a	CA-J12	
	BCM4712			V, v	2.1c	CA-J12	
	BCM4780		NAS	V, v	2.2a	CA-EJ12	
	BCM4785			V, v	2.3b	CA-EJ12	
	BCM5350			V, v	2.2a	CA-J12	
	BCM5352			V, v	2.3b	CA-J12	
	BCM5354		V, v	2.4a	CA-J12		
	BCM5365		Secure Routers	V	2.1a	CA-J12	
	BCM56218			V	SP	CA-MIPS14	
	BCM5834			V	2.1a	CA-J12	
	BCN5836		V	2.3b	CA-J10		
	BCM6338		DSL CPE Modems	V, v	2.4a	CA-J12	
	BCM6345			V, v	2.0b	CA-J12	
	BCM6348			V, v	2.1a	CA-J12	
	BCM6358			V, v	<b>2.4c</b>	CA-J12	
	BCM6368			v	<b>2.4c</b>	CA-J12	
	BCM6550A		DSL CO Proc	V, v	2.3b + SP	CA-J12	
	BCM7038		MIPS64 5Kf	Digital TV	V	2.3b	CA-MIPS14
	BCM7112				V, v	2.1a	CA-MIPS14
	BCM7115				V, v	2.1a	CA-MIPS14
	BCM7312			Satellite Set-Top Box	V	2.3b	CA-MIPS14
	BCM7313	V	<b>2.4c</b>		CA-MIPS14		
	BCM7315	V	2.1a		CA-MIPS14		
	BCM7320	MIPS64 5Kf	V	2.3b	CA-MIPS14		
	BCM7400	BMIPS Viper 4350 (MIPS Arch. Lic.)	HDTV/SDTV Processor				
	BCM7401	BMIPS32 (MIPS Arch. Lic.)		V	2.4a	CA-MIPS14	
	BCM7402						
	BCM7405	BMIPS Viper 4380 (MIPS Arch. Lic.)	V	<b>2.4c</b>	CA-MIPS14		
	BCM7440	BMIPS Viper 4350 (MIPS Arch. Lic.)	Blu-Ray/HD DVD SOC				
	BCM7452	BMIPS32 (MIPS Arch. Lic.)	HD STB				



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Cavium Networks	CN200	MIPS 4Km	Multi Service Processors	V, v	2.0a	CA-MIPS14
	CN201					
	CN210					
	CN220					
	CN225					
	OCTEON CN30xx/CN31xx	cnMIPS core (MIPS Arch. Lic.)	Secure Network Processors	V, v	2.4c	CA-MIPS14
	OCTEON CN36/38xx			V, v	2.3b	CA-MIPS14
	OCTEON PLUS CN5xxx			V, v	2.4c	CA-MIPS14
Conexant	CN9414	ARM 940T				
	CX224xx					
	CX82xxx			v		
	CX86111	ARM 926EJ-S	Old Faithful	V, v	>2.0b	
Conexant (Globespan-Virata)	Helium 500	ARM 920T & ARM 966E-S	Helium 500 Reference Platform	V, v	2.0b	
Freescale	MC9328MX1 i.MX1	ARM 920T	i.MX1 ADS	V	2.2a	CA-ARM20
	MC9328MXL i.MXL	ARM 920T	i.MXL ADS	V		CA-ARM20
	MC9328MX21 i.MX21	ARM926EJ-S	i.MX21 ADS	V	2.3a	CA-ARM20
	MC9328MX27 i.MX27	ARM926EJ-S	i.MX27ADS	v	E1	CA-ARM20
	MCIMX31 i.MX31	ARM1136JF-S	i.M31 ADS	V	2.4a	CA-ARM20
Infineon	Danube	dual 24KE				CA-MIPS14
	Twin Pass					
Infineon (ADMtek)	ADM5120	MIPS 4Kc		V	2.3a	CA-MIPS14



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Intel XScale	80219	XScale cores (ARM Arch. Lic.)	Emb. Planet EP80219	V, v	2.2a		
	80321		iq80321 Verde	V, v	2.0a		
	80331		iq80331 Lindsay	V, v	2.1a		
	80332		iq80332 Dobson	V, v	2.1a		
	80333		iq80333	V, v	SP		
	IXC1100		IXDB425 Richfield	V	2.0a		
	IXP420			V, v	2.1a		
	IXP421			V, v	2.1a		
	IXP422			v	2.1a		
	IXP425		Intel IXMB425, ADI Eng. Coyote	V, v	2.0a		
	IXP460 IXP465		Intel Azusa	V, v	2.3a		
	IXP2325 IXP2350		ADI Eng RoadRunner	V, v	2.3a		
	IXP2800 IXP2850		IXDP2800	V, v	2.1a		
	PXA26x			v	2.1a		
	PXA27x		Mainstone III	V, v	2.1c		
	Monahans		Zylonite	V, v	2.4a		
	Lexra		SOCs	LX4180	LXB4080 FLEX10K Platform		V, v
LX4189							
LX4280							
LX4380		LX-PB20K					
LX5180							
LX5280							
Marvell	Feroceon 88F5181	Marvell MRV02 (ARM Arch. Lic.)	Orion Platform	V, v	2.3a	CA-ARM20	
	Monahans PXA300/310/320	Intel XScale (ARM Arch. Lic.)	Zylonite	V, v	2.4b	CA-ARM20	
Micronas	MDE-9500	Lexra 4280	Lumiere Platform	V, v	<1.1	CA-EJ52	
	VGCA	MIPS 4KEc	VGCA Platform	V, v	2.3a	CA-MIPS14	
Micronas USA (acq. WISchip)	Cypher 7108	MIPS 4KEc	Micronas platforms	V, v	2.3a	CA-MIPS14	
	DeCypher8100						
MIPS cores	Licensee ASICs & ASSPs	4K (c,m,p)	Malta	V, v	<1.1	CA-MIPS14	
		4KE (c,m,p)	Malta	V, v	2.1a	CA-MIPS14	
		4KSd					
		M4K					
		5Kc	Malta (5Kf)	V	1.1	CA-MIPS14	
		5Kf	Malta, BCM7320	V, v	2.0b	CA-MIPS14	
		24Kc/Kf	Malta	V, v	2.2a	CA-MIPS14	



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NetSilicon (acq. by Digi International)	Net+ARM	ARM7TDMI	NET+ARM Dev. Board	V, v	<1.1	CA-ARM14
	NS7520			V, v	2.1c	CA-ARM14
	NS9360	ARM926EJ-S	NS Dev. Bd.	V, v	2.2a	CA-ARM20
	NS9750			V, v	2.1c	CA-ARM20
PMC-Sierra	MSP2006	MIPS 4Kc	Brecis EVM Board	V, v	2.0a	CA-MIPS14
	MSP2015					
	MSP2020					
	MSP4000					
	MSP4200					
	MSP5000					
Samsung	S3C4510/20/30 S3F441FX S3F460H S5N8946/47	ARM 7TDMI			<1.1	CA-ARM20
	S3C2400/10 S3C2800	ARM 920T		V, v	<1.1	
	S3C2500A S3C2510	ARM 940T		V, v	<1.1	
	S3C6400	ARM1176JZF-S	SMDK	V	2.4a	
Sharp	LH75400/401 LH75410/11	ARM 7TDMI	KEV75401	V	<1.1	CA-ARM20
	LH7A400/404	ARM 922T	KEV7A400		1.1	CA-ARM20
Sigma Designs	SMP8634	4Kc		V, v	2.3a	CA-MIPS14
TC Applied Technologies (Wavefront)	Dice II	ARM 7TDMI	Dice II EVM	V, v	2.3a	CA-ARM20
Texas Instruments (ARM)	TMS320C5470/1/2 TMS320DSC21	ARM 7TDMI	Telocity RP	V, v	<1.1	CA-ARM20
	TMS320DM6446	ARM926EJ-S	DaVinci	V	2.4b	CA-ARM20 + Adapter
	OMAP-1510	T1925	OMAP1510 EVM	V, v	1.1	CA-ARM20
	OMAP-2430	ARM1136JF-S		V, v	2.4b	CA-ARM20
	OMAP-5910	T1925	OMAP1510 EVM	V, v	1.1	CA-ARM20
	OMAP-5912	ARM926EJ-S		V	2.3b	CA-ARM20
Texas Instruments (MIPS)	TNETC4310/20	MIPS32 4Kc	TNETC401		1.1	CA-MIPS14
	TNETC4400/01	MIPS32 4Kc	TNETC406		1.1	CA-MIPS14
	TNETD5301	MIPS32 4Kc	AR5D01		1.1	CA-MIPS14
	TNETD5310	MIPS32 4Kc	AR5V10		1.1	CA-MIPS14
	TNETD5320	MIPS32 4Kc	AR5V20		1.1	CA-MIPS14
	TNETD7300	MIPS32 4KEc	AR7	V, v	2.1a	CA-MIPS14
Wavefront Semi	DICE II	ARM7TDMI	Dice II EVM	V, v	2.3a	CA-ARM14

