

Mentor Embedded ReadyStart Nucleus Board Support Package for Atmel SAM3U

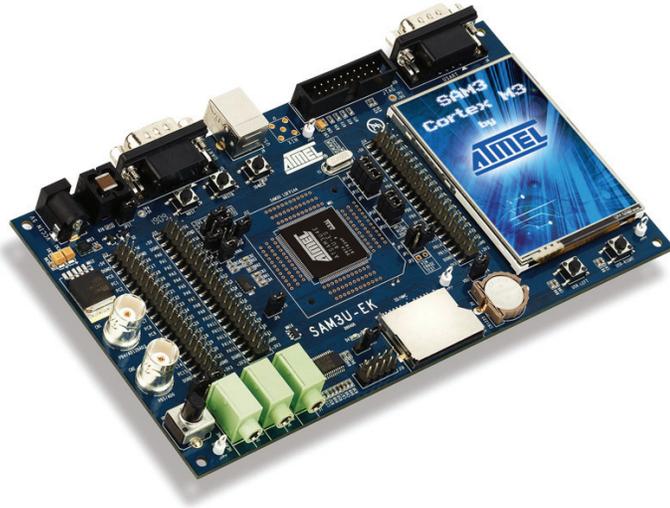
S P E C S H E E T

Platform Highlights:

- Ready-to-use development platform with drivers, connectivity middleware, development tools, and graphical user interface runtime
- Complete ReadyStart BSP available
- Targeted for high-speed gateways in industrial and medical applications; PC and mobile phone accessories; USB tokens & drivers; and dataloggers
- Packaged practices/services to extend/customize BSP support

Driver Support:

- **Serial:** Debug unit (default standard I/O)
- **Two Wire Interface:** I2C
- **SPI:** Serial peripheral interface
- **Storage Drivers:** HCD (SD mode) and Safe NAND
- **Power Management Controller**
- **USB Function Device Port**
- **Display:** VGA TFT LCD display
- **Touch Screen**



Overview

The enablement platform for today's developers, the Mentor® Embedded ReadyStart™ platform brings together integrated software IP, tools, and services into a single, "ready-to-use" solution ideal for applications where a small footprint, deterministic performance, and small code size are essential and tightly coupled with the Atmel SAM3U hardware.

Atmel's Cortex® M3-based SAM3U delivers high-speed interfaces combined with innovative high-data bandwidth architecture that make it the ideal device for applications with intensive communication requirements. The 96 MHz SAM3U integrates multiple high-speed peripherals, including an on-chip high-speed USB device and PHY at 480 Mbps. With sophisticated power management techniques and an operating voltage down to 1.62V, the SAM3U maximizes battery usage and provides true 1.8V operation. For additional board specifics, visit www.atmel.com

For more information on Mentor BSP offerings, please visit:
www.mentor.com/embedded-software/readystart/readystart-nucleus

Embedded software development today

A new paradigm has emerged in the embedded industry. Semiconductor companies have moved away from silicon only to system companies – building application-ready, hardware/software-specific platforms. Software developers are tasked to do more in a fraction of the time. Developers must also design their systems to accommodate ever-increasing processing power while staying within a given power budget and incorporate multicore/multi-OS architectures. If today's developers are to meet these challenges, they will need to work within an all-inclusive, highly integrated, and independent development platform. What's needed is a new design methodology based on a true build system with all the essential components pre-integrated and in place.

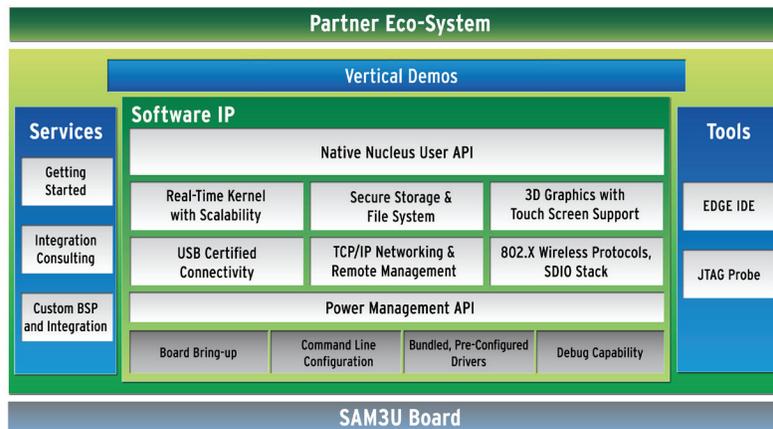
The ReadyStart platform for Nucleus OS

The Mentor® Embedded ReadyStart™ platform for Nucleus® Real Time Operating System (RTOS) is the enablement platform system developers need today.

The platform brings together integrated software IP, tools, and services into a single “ready-to-use” solution ideal for applications where a small footprint, deterministic performance, and small code size are essential. In addition, the ReadyStart platform includes demonstrations and configurations that provide immediately available application-level code, further assisting developers to quickly develop medical, industrial, automotive, and consumer devices.

Why the ReadyStart platform is the smart choice for developers

The ReadyStart platform answers the most critical development challenges: cost and time to market. By providing a single distribution that accelerates fast bring-up of a complete system and by offering a new BSP interface along with power management services, software developers are able to create complex and optimized out-of-the-box target platforms instantly.



The ReadyStart platform comprises integrated software IP, tools, and services targeting specific boards such as the SAM3U from Atmel.

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