

# Embii - SAMA5D3 PRODUCT BRIEF

PRELIMINARY

## SMARC - Smart Mobility ARChitecture

82mm x 50mm Small Form Factor, Low Profile, Low Power Module

314-Pin Edge Finger Pin-Out Optimized For ARM Architecture Processor

Excellent Signal Integrity – Supports 2.5 GHz/5 GHz Data Rate Signals

Withstands Harsh Industrial Environments

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# Technical Information

Processor	Atmel SAMA5D3 ARM Cortex®-A5 @ 536 MHz 32Kbytes Instruction Cache 32Kbytes Data Cache
Memory	256MB x 32 DDR2 @ 166MHz
Flash	256MB NAND Flash, 32Mbit SPI Flash, 2Kbit EEPROM
USB	1 x USB 2.0 Host/Device 1 x USB 2.0 Host
Display	Parallel 24-bit LCD
Image Capture Interface	Camera Input 8-bit Parallel Interface
CAN	2xCAN
I2C	1x I2C
SPI	1x SPI
I2S	1x I2S
UART	3x UART, 1x Serial Debug
SDMMC	1x SDMMC
SDIO	1x SDIO
Power	Typical 1.2 Watts (Estimated)
Power Supply	3V to 5.25 - Operates from fixed 3.3V or 5V power supply or single level Lithium Ion cell
Thermal	Industrial Temperature: -40°C to +85°C
Software Support	Linux - 3.10
Compliance	Form Factor: 82mm x 50mm Compliance SMARC (Smart Mobility ARChitecture)

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