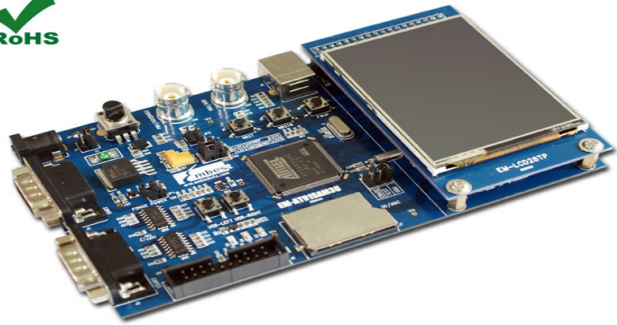# element14 Your Electronic Engineering Resource

Embest - EM-AT91SAM3U - AT91SAM3U ARM-CM3 Board

Product Overview:

The ATSAM3U ARM-CM3 Board is an ARM embedded evaluation board produced by Embest, integrate the ATMEL Cortex-M3 core-based processor ATSAM3U4E, operating at 96 MHz frequency. The board features USB, I2C, MCI interface, TFT-LCD, USART interface, 96 I/O port, EBI support SRAM/NOR/NAND memory, etc. Plenty of software examples, which can be used in Keil MDK environment, are accompanied in CDROM.

Kit Contents:

Take the EM-AT91SAM3U out of its box. Included in the box are:

- One AT91SAM3U Evaluation Board

- One 2.8 inches TFT LCD（240x320）

- One RS-232 serial cable
- One USB A-B cable
- One CD-ROM
- Packing List (Paper)
- Getting Started (Paper)

Key Features:

- Serial Port
- CAN Port
- USB Port
- LCD Display
- On-board Battery
- Analog Voltage Control for ADC Input
- External Memory
- MicroSD Card Connector
- ETM Trace Debug

- JTAG Download and Debug

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
EM-AT91SAM3U	Embest	NA	63R5716

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
SW_LICA	Embest	Emlink for ARM License	1788113	63R5737
SPC19944	SPC Technology	Shielded Serial Cable Assembly	1702771	83K3689
SPC15457	SPC Technology	Standard 9 Pin D-Sub miniature Connector	1653954	79K5032
897-43-004-90-000000	Mill Max	USB Connector	1621546	84K7068

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
ATSAM3U-EK	Atmel	ATSAM3U Evaluation kit	ATSAM3U ARM	1716045	15R0277
AT91SAM3U-SK	Embest	ATSAM3U Development Tool	ATSAM3U ARM	NA	63R5715

Document List:

Datasheets:

Part Number	Description	Size
MAX3232	[RS-232 Transceivers](#)	752KB
LM1117DT-ADJ	[800mA Low-Dropout Linear Regulator](#)	647KB
SAM3U Series	[32-bit ARM Cortex M3 RISC processor](#)	21.3MB

Application Notes:

File Name	Size
Using the Two-wire interface (TWI) in Master Mode on AT91SAM Microcontrollers	1.05MB
Signal Integrity and AT91 Products	694KB
SAM3U Microcontroller Series Schematic Check List	496KB