



Image may be representation.  
See specifications for product details.



## ATSAM3U4EA-AU

Manufacturer Part Number	<b>ATSAM3U4EA-AU</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-ATSAM3U4EA-AU
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 256KB FLASH 144LQFP
Package	144-LQFP
Data sheet	<b>SAM3U Series.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

ATSAM3U4EA-AU - Microchip Technology. New Original in Stock. Download Linear Technology ATSAM3U4EA-AU datasheet/specifications on AllelcoElec.com. Request a quote for ATSAM3U4EA-AU, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

ATSAM3U4EA-AU Tech Specifications

ATSAM3U4EA-AU - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	96
Speed	96MHz	Mounting Type	Surface Mount
Series	SAM3U	EEPROM Size	-
RAM Size	52K x 8	Data Converters	A/D 8x10b, 8x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	256KB (256K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Connectivity	EBI/EMI, I²C, Memory Card, SPI, SSC, UART/USART, USB
Package / Case	144-LQFP	Base Product Number	ATSAM3U
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAM3U4EA-AU

Product Attribute				
Part Number	ATSAM3U4EA-AU	ATSAM3U1EB-AU	ATSAM4C16CA-AU	ATSAM3U2EA-AU
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Supplier Device Package	144-LQFP (20x20)	144-LQFP (20x20)	100-LQFP (14x14)	144-LQFP (20x20)
RAM Size	52K x 8	20K x 8	128K x 8	36K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Base Product Number	ATSAM3U	ATSAM3U	ATSAM4C	ATSAM3U
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Series	SAM3U	SAM3U	SAM4C	SAM3U
EEPROM Size	-	-	-	-
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Package	Tray	Tray	Tray	Tray
Program Memory Size	256KB (256K x 8)	64KB (64K x 8)	1MB (1M x 8)	128KB (128K x 8)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Dual-Core	32-Bit Single-Core
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M4/M4F	ARM® Cortex®-M3
Speed	96MHz	96MHz	120MHz	96MHz
Number of I/O	96	96	74	96
Package / Case	144-LQFP	144-LQFP	100-LQFP	144-LQFP
Connectivity	EBI/EMI, I²C, Memory Card, SPI, SSC, UART/USART, USB	EBI/EMI, I²C, Memory Card, SPI, SSC, UART/USART, USB	EBI/EMI, I²C, IrDA, SPI, UART/USART	EBI/EMI, I²C, Memory Card, SPI, SSC, UART/USART, USB
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
Data Converters	A/D 8x10b, 8x12b	A/D 8x10b, 8x12b	A/D 8x10b	A/D 8x10b, 8x12b
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

### ATSAM3U4EA-AU Datasheet PDF

Download ATSAM3U4EA-AU pdf datasheets and Microchip Technology documentation for ATSAM3U4EA-AU - Microchip Technology.

#### Datasheets

SAM3U Series.pdf

#### PCN Packaging

Transfer to Microchip/Label/Pkg 5/Sep/2016.pdf

Boxes 07/Dec/2016.pdf

### PCN Design/Specification

Marking Chgs 11/Jul/2017.pdf






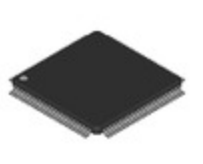


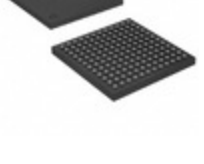
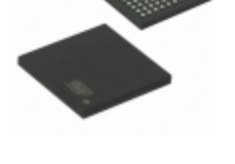








Copper Bonding Wire 24/Apr/2015.pdf

### PCN Assembly/Origin

2.73KHz.pdf

## Customers Also Interested in

### Recommended Products

 <b>ATSAM3U1EB-AU</b> Microchip Technology IC MCU 32BIT 64KB FLASH 144LQFP	 <b>ATSAM4C16CA-AU</b> Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	 <b>ATSAM3U2EA-AU</b> Microchip Technology IC MCU 32BIT 128KB FLASH 144LQFP	 <b>ATSAM3U4CA-AU</b> Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP	 <b>ATSAM3X8EA-AU</b> Microchip Technology IC MCU 32BIT 512KB FLASH 144LQFP	 <b>ATSAM3X4CA-AU</b> Atmel IC MCU 32BIT 256KB FLASH 100LQFP
 <b>ATSAM3X8CA-AU</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	 <b>ATSAM3X4CA-AUR</b> Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP	 <b>ATSAM3X8EA-CU</b> Microchip Technology IC MCU 32BIT 512KB FLASH 144BGA	 <b>ATSAM3U4CA-CU</b> Microchip Technology IC MCU 32BIT 256KB FLSH 100TFBGA	 <b>ATSAM3X4CA-AU</b> Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP	 <b>ATSAM3U2CA-AU</b> Microchip Technology IC MCU 32BIT 128KB FLASH 100LQFP
 <b>ATSAM3U2C-AU</b> Atmel (Microchip Technology)	 <b>ATSAM3U4E-AU</b> Atmel (Microchip Technology)	 <b>ATSAM3U2EA-AU</b> Atmel IC MCU 32BIT 128KB FLASH 144LQFP	 <b>ATSAM4C16CA-AUR</b> Atmel IC MCU 32BIT 1MB FLASH 100LQFP	 <b>ATSAM3U1CB-CU</b> Microchip Technology IC MCU 32BIT 64KB FLASH 100TFBGA	 <b>ATSAM3U4C-AU</b> Atmel (Microchip Technology)

## Shipment

### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

### Delivery Cost

- > Use your express account for shipment if you have one.
  - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

### Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00




Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

### Payment Support



The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -

-  Efficient Supply Management
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-  Fast Sourcing & Delivery

Contact us if you have any questions.

-  Phone  
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### Certifications & Memberships



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