

Image may be representation.  
See specifications for product details.



## ATSAM3U2EA-AU

Manufacturer Part Number	<b>ATSAM3U2EA-AU</b>
Manufacturer	<b>Atmel</b>
Allelco Part Number	32D-ATSAM3U2EA-AU
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 128KB FLASH 144LQFP
Package	144-LQFP
Data sheet	ATSAM3U2EA-AU.pdf

**Get a Quote**

ATSAM3U2EA-AU - Atmel.New Original in Stock. Download Linear Technology ATSAM3U2EA-AU datasheet/specifications on AllelcoElec.com.  
Request a quote for ATSAM3U2EA-AU, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

ATSAM3U2EA-AU Tech Specifications

ATSAM3U2EA-AU - Atmel technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Atmel	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	36K x 8	Data Converters	A/D 8x10b, 8x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	128KB (128K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Connectivity	EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB
Package / Case	144-LQFP	Base Product Number	ATSAM3U
Package	Bulk		

## Parts with Similar Specifications

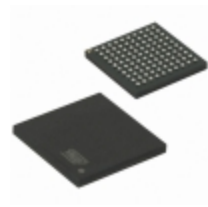
The three parts on the right have similar specifications to Atmel ATSAM3U2EA-AU

Product Attribute				
Part Number	ATSAM3U2EA-AU	<b>ATSAM3U1CA-AU</b>	<b>ATSAM3U4EA-AU</b>	<b>ATSAM3U1CA-AU</b>
Manufacturer	Atmel	Microchip Technology	Microchip Technology	Atmel
Supplier Device Package	144-LQFP (20x20)	100-LQFP (14x14)	144-LQFP (20x20)	100-LQFP (14x14)
Connectivity	EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB	EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB	EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB	EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB
Package / Case	144-LQFP	100-LQFP	144-LQFP	100-LQFP
Series	SAM3U	SAM3U	SAM3U	SAM3U
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Oscillator Type	Internal	Internal	Internal	Internal
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT
Data Converters	A/D 8x10b, 8x12b	A/D 4x10b, 4x12b	A/D 8x10b, 8x12b	A/D 4x10b, 4x12b
Speed	96MHz	96MHz	96MHz	96MHz
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
RAM Size	36K x 8	20K x 8	52K x 8	20K x 8
Package	Bulk	Tray	Tray	Tray
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	ATSAM3U	ATSAM3U	ATSAM3U	ATSAM3U
Number of I/O	96	57	96	57
Program Memory Size	128KB (128K x 8)	64KB (64K x 8)	256KB (256K x 8)	64KB (64K x 8)

## Customers Also Interested in

### Recommended Products

<b>ATSAM3U1CA-AU</b>	<b>ATSAM3U4EA-AU</b>	<b>ATSAM3U1CA-AU</b>	<b>ATSAM3U4CA-CU</b>	<b>ATSAM3U1EB-AU</b>	<b>ATSAM3X4CA-AUR</b>	
Microchip Technology IC MCU 32BIT 64KB FLASH 100LQFP	Microchip Technology IC MCU 32BIT 256KB FLASH 144LQFP	Atmel IC MCU 32BIT 64KB FLASH 100LQFP	Microchip Technology IC MCU 32BIT 256KB FLSH 100TFBGA	Microchip Technology IC MCU 32BIT 64KB FLASH 144LQFP	Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP	



### ATSAM3U1C-AU

Atmel (Microchip Technology)

### ATSAM3X8CA-AU

Microchip Technology  
IC MCU 32BIT 512KB FLASH  
100LQFP

### ATSAM3S8CA-CUR

Microchip Technology  
IC MCU 32BIT 512KB FLSH  
100TFBGA

### ATSAM3U4CA-AU

Microchip Technology  
IC MCU 32BIT 256KB FLASH  
100LQFP

### ATSAM3U4C-AU

Atmel (Microchip Technology)

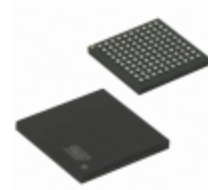
### ATSAM3U2C-AU

Atmel (Microchip Technology)



### ATSAM3U2CA-AU

Microchip Technology  
IC MCU 32BIT 128KB FLASH  
100LQFP



### ATSAM3U1CB-CU

Microchip Technology  
IC MCU 32BIT 64KB FLASH  
100TFBGA



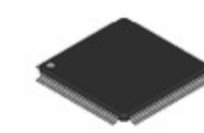
### ATSAM3X4CA-AU

Microchip Technology  
IC MCU 32BIT 256KB FLASH  
100LQFP



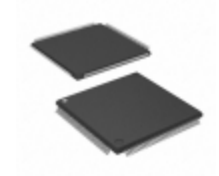
### ATSAM3U1CB-AU

Microchip Technology  
IC MCU 32BIT 64KB FLASH 100LQFP



### ATSAM3X4CA-AU

Atmel  
IC MCU 32BIT 256KB FLASH  
100LQFP



### ATSAM3U2EA-AU

Microchip Technology  
IC MCU 32BIT 128KB FLASH  
144LQFP

## 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.



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Efficient Supply Management



Cost-Saving Procurement



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Contact us if you have any questions.



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