

Image may be representation.  
See specifications for product details.



## ATSAM4E8EA-AUR

Manufacturer Part Number	<a href="#">ATSAM4E8EA-AUR</a>
Manufacturer	<a href="#">Microchip Technology</a>
Allelco Part Number	32D-ATSAM4E8EA-AUR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 512KB FLASH 144LQFP
Package	144-LQFP
Data sheet	<a href="#">SAM4E Series Datasheet.pdf</a>
	<a href="#">SAM4E Series Flyer.pdf</a>
RoHs Status	ROHS3 Compliant

**Get a Quote**

ATSAM4E8EA-AUR - Microchip Technology. New Original in Stock. Download Linear Technology ATSAM4E8EA-AUR datasheet/specifications on AllelcoElec.com.  
Request a quote for ATSAM4E8EA-AUR, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

ATSAM4E8EA-AUR Tech Specifications

ATSAM4E8EA-AUR - 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	117
Speed	120MHz	Mounting Type	Surface Mount
Series	SAM4E	EEPROM Size	-
RAM Size	128K x 8	Data Converters	A/D 16x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, Ethernet, IrDA, SD, SPI, UART/USART, USB
Package / Case	144-LQFP	Base Product Number	ATSAM4E
Package	Tape & Reel (TR)		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAM4E8EA-AUR

Product Attribute				
Part Number	ATSAM4E8EA-AUR	<a href="#">ATSAM4LC2BA-AU</a>	<a href="#">ATSAM4E8EA-AU</a>	<a href="#">ATSAM4LC2AA-AU</a>
Manufacturer	Microchip Technology	Atmel	Microchip Technology	Atmel
Program Memory Size	512KB (512K x 8)	128KB (128K x 8)	512KB (512K x 8)	128KB (128K x 8)
Connectivity	CANbus, EBI/EMI, Ethernet, IrDA, SD, SPI, UART/USART, USB	I²C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, EBI/EMI, Ethernet, IrDA, SD, SPI, UART/USART, USB	I²C, IrDA, LINbus, SPI, UART/USART, USB
RAM Size	128K x 8	32K x 8	128K x 8	32K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Series	SAM4E	SAM4L	SAM4E	SAM4L
Data Converters	A/D 16x12b; D/A 2x12b	A/D 7x12b; D/A 1x10b	A/D 16x12b; D/A 2x12b	A/D 3x12b; D/A 1x10b
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.68V ~ 3.6V	1.62V ~ 3.6V	1.68V ~ 3.6V
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Oscillator Type	Internal	Internal	Internal	Internal
Supplier Device Package	144-LQFP (20x20)	64-TQFP (10x10)	144-LQFP (20x20)	48-TQFP (7x7)
Package	Tape & Reel (TR)	Bulk	Tray	Bulk
Number of I/O	117	43	117	27
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Speed	120MHz	48MHz	120MHz	48MHz
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Base Product Number	ATSAM4E	ATSAM4LC	ATSAM4E	ATSAM4LC
Package / Case	144-LQFP	64-TQFP	144-LQFP	48-TQFP

## ATSAM4E8EA-AUR Datasheet PDF

Download ATSAM4E8EA-AUR pdf datasheets and Microchip Technology documentation for ATSAM4E8EA-AUR - Microchip Technology.

### Datasheets

[SAM4E Series Datasheet.pdf](#)









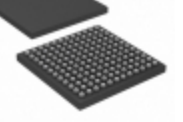



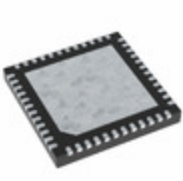
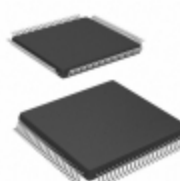
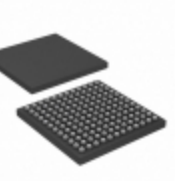
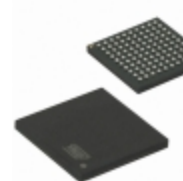

[SAM4E Series Flyer.pdf](#)

### PCN Packaging

PCN Design/Specification

Customers Also Interested in

Recommended Products

					
<b>ATSAM4LC2BA-AU</b> Atmel IC MCU 32BIT 128KB FLASH 64TQFP	<b>ATSAM4E8EA-AU</b> Microchip Technology IC MCU 32BIT 512KB FLASH 144LQFP	<b>ATSAM4LC2AA-AU</b> Atmel IC MCU 32BIT 128KB FLASH 48TQFP	<b>ATSAM4E8CA-AU</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	<b>ATSAM4LC2AA-AU</b> Microchip Technology IC MCU 32BIT 128KB FLASH 48TQFP	<b>ATSAM4LC2CA-CFU</b> Atmel IC MCU 32BIT 128KB FLSH 100VFBGA
					
<b>ATSAM4LC2CA</b> Atmel (Microchip Technology)	<b>ATSAM4E8CA-AU</b> Atmel IC MCU 32BIT 512KB FLASH 100LQFP	<b>ATSAM4E8CA-AN</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	<b>ATSAM4E8EB-CN</b> Microchip Technology IC MCU 32BIT 512KB FLSH 144LFBGA	<b>ATSAM4LC2BA-AU</b> Microchip Technology IC MCU 32BIT 128KB FLASH 64TQFP	<b>ATSAM4E8CA-CU</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP
					
<b>ATSAM4E8CA-ANR</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	<b>ATSAM4LC2AA-MU</b> Microchip Technology IC MCU 32BIT 128KB FLASH 48QFN	<b>ATSAM4LC2CA-AU</b> Microchip Technology IC MCU 32BIT 128KB FLASH 100TQFP	<b>ATSAM4E16EA-CUR</b> Microchip Technology IC MCU 32BIT 1MB FLASH 144LFBGA	<b>ATSAM4E8CA-CUR</b> Microchip Technology IC MCU 32BIT 512KB FLSH 100TFBGA	<b>ATSAM4E8CB-ANR</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP

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	 Cost-Saving Procurement	 Fast Sourcing & Delivery
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Contact us if you have any questions.

 Phone +00852 9146 4856	 Email info@allelco.com
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Certifications & Memberships



View More

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