

Image may be representation.
See specifications for product details.



ATSAM4E16EA-AUR

Manufacturer Part Number	ATSAM4E16EA-AUR
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAM4E16EA-AUR
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 1MB FLASH 144LQFP
Package	144-LQFP
Data sheet	SAM4E Series Datasheet.pdf SAM4E Series Flyer.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAM4E16EA-AUR - Microchip Technology. New Original in Stock. Download Linear Technology ATSAM4E16EA-AUR datasheet/specifications on AllelcoElec.com. Request a quote for ATSAM4E16EA-AUR, please send us email: info@allelco.com

Specifications

ATSAM4E16EA-AUR Tech Specifications
ATSAM4E16EA-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	1MB (1M 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 ATSAM4E16EA-AUR

Product Attribute				
Part Number	ATSAM4E16EA-AUR	ATSAM4E16EA-CUR	ATSAM4E16CA-CU	ATSAM4CMS4CB-AU
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Program Memory Size	1MB (1M x 8)	1MB (1M x 8)	1MB (1M x 8)	256KB (256K x 8)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Dual-Core
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
Base Product Number	ATSAM4E	ATSAM4E	ATSAM4E	ATSAM4CM
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Tray
Data Converters	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 6x10b
Speed	120MHz	120MHz	120MHz	120MHz
Supplier Device Package	144-LQFP (20x20)	144-LFBGA (10x10)	100-TFBGA (9x9)	100-LQFP (14x14)
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4/M4F
Connectivity	CANbus, EBI/EMI, Ethernet, IrDA, SD, SPI, UART/USART, USB	CANbus, EBI/EMI, Ethernet, IrDA, SD, SPI, UART/USART, USB	CANbus, Ethernet, IrDA, MMC/SD, SPI, UART/USART, USB	EBI/EMI, I ² C, IrDA, SPI, UART/USART
Number of I/O	117	117	79	57
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT
Series	SAM4E	SAM4E	SAM4E	SAM4CM
EEPROM Size	-	-	-	-
Package / Case	144-LQFP	144-LFBGA	100-TFBGA	100-LQFP
Oscillator Type	Internal	Internal	Internal	Internal
RAM Size	128K x 8	128K x 8	128K x 8	128K x 8

ATSAM4E16EA-AUR Datasheet PDF

Download ATSAM4E16EA-AUR pdf datasheets and Microchip Technology documentation for ATSAM4E16EA-AUR - Microchip Technology.

Datasheets

[SAM4E Series Datasheet.pdf](#)

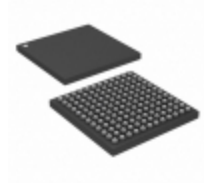
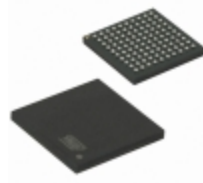






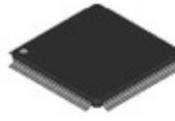
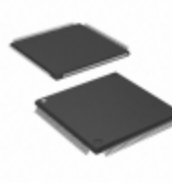


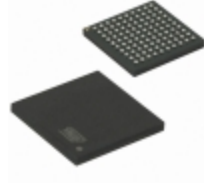




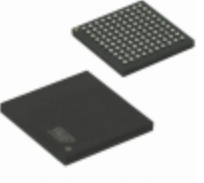
[SAM4E Series Flyer.pdf](#)

PCN Packaging

PCN Design/Specification

Customers Also Interested in

Recommended Products

					
ATSAM4E16EA-CUR Microchip Technology IC MCU 32BIT 1MB FLASH 144LFBGA	ATSAM4E16CA-CU Microchip Technology IC MCU 32BIT 1MB FLASH 100TFBGA	ATSAM4CMS4CB-AU Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP	ATSAM4CP16B-AHU-Y Microchip Technology IC MCU 32BIT 1MB FLASH 176LQFP	ATSAM4CMS8CA-AU Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	ATSAM4E8CA-AU Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP
					
ATSAM4E16CA-AUR Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	ATSAM4E8CA-AN Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	ATSAM4E8CA-AU Atmel IC MCU 32BIT 512KB FLASH 100LQFP	ATSAM4E16EA-AU Microchip Technology IC MCU 32BIT 1MB FLASH 144LQFP	ATSAM4CP16B-AHU-Y Atmel IC MCU 32BIT 1MB FLASH 176LQFP	ATSAM4E8CB-ANR Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP
					
ATSAM4E8CA-CU Microchip Technology IC MCU 32BIT 512KB FLSH 100TFBGA	ATSAM4E16CA-AU Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	ATSAM4CMS8CB-AUR Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	ATSAM4E8CA-ANR Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	ATSAM4CMS8CC-AU Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	ATSAM4E8CA-CUR Microchip Technology IC MCU 32BIT 512KB FLSH 100TFBGA

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.

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