



Image may be representation.
See specifications for product details.



ATSAM4E16CA-AUR

Manufacturer Part Number	ATSAM4E16CA-AUR
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAM4E16CA-AUR
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 1MB FLASH 100LQFP
Package	100-LQFP
Data sheet	SAM4E Series Datasheet.pdf
	SAM4E Series Flyer.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAM4E16CA-AUR - Microchip Technology. New Original in Stock. Download Linear Technology ATSAM4E16CA-AUR datasheet/specifications on AllelcoElec.com. Request a quote for ATSAM4E16CA-AUR, please send us email: info@allelco.com

Specifications

ATSAM4E16CA-AUR Tech Specifications
ATSAM4E16CA-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	100-LQFP (14x14)	Number of I/O	79
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, Ethernet, IrDA, MMC/SD, SPI, UART/USART, USB
Package / Case	100-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 ATSAM4E16CA-AUR

Product Attribute				
Part Number	ATSAM4E16CA-AUR	ATSAM4CMS8CA-AU	ATSAM4CMS8CC-AU	ATSAM4CP16B-AHU-Y
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Data Converters	A/D 16x12b; D/A 2x12b	A/D 6x10b	A/D 6x10b	A/D 8x10b
Base Product Number	ATSAM4E	ATSAM4CM	ATSAM4CM	ATSAM4CP
Number of I/O	79	57	57	69
Supplier Device Package	100-LQFP (14x14)	100-LQFP (14x14)	100-LQFP (14x14)	176-LQFP (24x24)
Connectivity	CANbus, Ethernet, IrDA, MMC/SD, SPI, UART/USART, USB	EBI/EMI, I ² C, IrDA, SPI, UART/USART	EBI/EMI, I ² C, IrDA, SPI, UART/USART	I ² C, IrDA, SPI, UART/USART
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	128K x 8	128K x 8	128K x 8	152K x 8
Package	Tape & Reel (TR)	Tray	Tray	Tray
Core Size	32-Bit Single-Core	32-Bit Dual-Core	32-Bit Dual-Core	32-Bit Dual-Core
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Series	SAM4E	SAM4CM	SAM4CM	SAM4CP
Package / Case	100-LQFP	100-LQFP	100-LQFP	176-LQFP
Program Memory Size	1MB (1M x 8)	512KB (512K x 8)	512KB (512K x 8)	1MB (1M x 8)
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.08V ~ 3.6V
Oscillator Type	Internal	Internal	Internal	Internal
EEPROM Size	-	-	-	-
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4/M4F	ARM® Cortex®-M4/M4F	ARM® Cortex®-M4/M4F
Speed	120MHz	120MHz	120MHz	120MHz

ATSAM4E16CA-AUR Datasheet PDF


Download ATSAM4E16CA-AUR pdf datasheets and Microchip Technology documentation for ATSAM4E16CA-AUR - Microchip Technology.

Datasheets

SAM4E Series Datasheet.pdf

PCN Packaging

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

 Packing Material Change 24/Oct/2022.pdf

PCN Design/Specification

 Marking Chgs 11/Jul/2017.pdf



















 Errata 06/Jun/2016.pdf

HTML Datasheet

 SAM4E Series Flyer.pdf

Customers Also Interested in

Recommended Products

 ATSAM4CMS8CA-AU Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	 ATSAM4CMS8CC-AU Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	 ATSAM4CP16B-AHU-Y Microchip Technology IC MCU 32BIT 1MB FLASH 176LQFP	 ATSAM4CMS8CB-AUR Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	 ATSAM4E16EA-AUR Microchip Technology IC MCU 32BIT 1MB FLASH 144LQFP	 ATSAM4E16EA-CUR Microchip Technology IC MCU 32BIT 1MB FLASH 144LFBGA
 ATSAM4E16EA-CU Microchip Technology IC MCU 32BIT 1MB FLASH 144LFBGA	 ATSAM4CMS16CA-AU Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	 ATSAM4E16CA-CU Microchip Technology IC MCU 32BIT 1MB FLASH 100TFBGA	 ATSAM4E16EA-AU Microchip Technology IC MCU 32BIT 1MB FLASH 144LQFP	 ATSAM4CMS4CB-AU Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP	 ATSAM4E8CA-AN Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP
 ATSAM4E8CA-AU Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	 ATSAM4E8CA-ANR Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	 ATSAM4E16CA-AU Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	 ATSAM4E8CA-AU Atmel IC MCU 32BIT 512KB FLASH 100LQFP	 ATSAM4CP16B-AHU-Y Atmel IC MCU 32BIT 1MB FLASH 176LQFP	 ATSAM4CMS16CC-AU Microchip Technology IC MCU 32BIT 1MB 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.



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 Cost-Saving Procurement
 Fast Sourcing & Delivery

Contact us if you have any questions.

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