

ATSAM4E16CA-AU



Part Number: [ATSAM4E16CA-AU](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 1MB FLASH 100LQFP

Data sheet:  [SAM4E Series Flyer](#)  
 [SAM4E Series Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

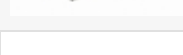
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                            |                                 |                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ATSAM4E16CA-AU                                                                             | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MCU 32BIT 1MB FLASH 100LQFP                                                             | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16535 pcs                                                                                  | Data sheet                      | <a href="#">SAM4E Series Flyer</a><br><a href="#">SAM4E Series Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a>                                                  | Voltage - Supply (Vcc/Vdd)      | 1.62 V ~ 3.6 V                                                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100-LQFP (14x14)                                                                           | Speed                           | 120MHz                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAM4E                                                                                      | RAM Size                        | 128K x 8                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FLASH                                                                                      | Program Memory Size             | 1MB (1M x 8)                                                                 |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Brown-out Detect/Reset, DMA, POR, PWM, WDT                                                 | Packaging                       | Tray                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100-LQFP                                                                                   | Oscillator Type                 | Internal                                                                     |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -40°C ~ 85°C (TA)                                                                          | Number of I/O                   | 79                                                                           |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3 (168 Hours)                                                                              | Manufacturer Standard Lead Time | 13 Weeks                                                                     |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Lead free / RoHS Compliant                                                                 | EEPROM Size                     | -                                                                            |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ARM® Cortex®-M4 SAM4E Microcontroller IC 32-Bit 120MHz 1MB (1M x 8) FLASH 100-LQFP (14x14) | Data Converters                 | A/D 16x12b, D/A 2x12b                                                        |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 32-Bit                                                                                     | Core Processor                  | ARM® Cortex®-M4                                                              |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CANbus, Ethernet, IrDA, MMC/SD, SPI, UART/USART, USB                                       | Base Part Number                | ATSAM4E16                                                                    |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAM4CP16B-AHU-Y</a><br>Description: IC MCU 32BIT 1MB FLASH 176LQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E-XPRO</a><br>Description: SAM4E XPLAINED PRO EVAL KIT          | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16EA-AU</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4CMS8CC-AUR</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CA-AN</a><br>Description: IC MCU 32BIT 1MB FLASH 100LQFP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CA-ANR</a><br>Description: IC MCU 32BIT 1MB FLASH 100LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CA-CU</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4CMS8CC-AU</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4CP16B-EK</a><br>Description: EVAL KIT FOR SAM4CP16B             | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CA-CUR</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CA-AUR</a><br>Description: IC MCU 32BIT 1MB FLASH 100LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4CP16C-AHU-Y</a><br>Description: IC MCU 32BIT 1MB FLASH 176LQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CB-CN</a><br>Description: IC MCU 32BIT 1MB FLASH 144TFBGA    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CB-CNR</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E-EK</a><br>Description: EVAL KIT FOR SAM4E CORTEx              | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4CP16C-EK</a><br>Description: EVAL KIT FOR SAM4CP16C             | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16EA-AN</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16EA-ANR</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CB-ANR</a><br>Description: IC MCU 32BIT 1MB FLASH 100LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16CB-AN</a><br>Description: IC MCU 32BIT 1MB FLASH 100LQFP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

Related keywords for ATSAM4E16CA-AU

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