

ATSAM4E16CB-ANR



Part Number: [ATSAM4E16CB-ANR](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 1MB FLASH 100LQFP

Data sheet:  [SAM4E Series Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

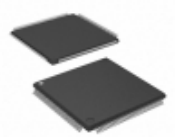
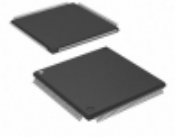
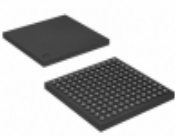
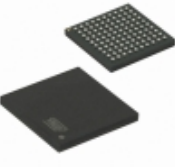
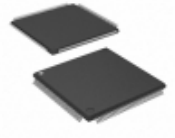
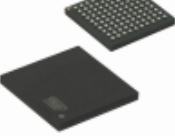
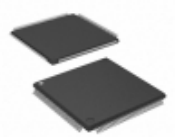
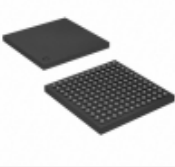
Ship From: Hong Kong

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Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                                  |                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ATSAM4E16CB-ANR                            | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14957 pcs                                  | Data sheet                       | <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                        | Tape & Reel (TR)                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100-LQFP                                   | Other Names                      | ATSAM4E16CB-ANRTR                                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                   | Operating Temperature            | -40°C ~ 105°C (TA)                                                                         |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 79                                         | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                              |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 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                                       |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                              |                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAM4E16EB-AN</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP   | 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-AUR</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16EA-CUR</a><br>Description: IC MCU 32BIT 1MB FLASH 144LFBGA | 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> |
|  | 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="#">ATSAM4E16EA-AU</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP   | 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="#">ATSAM4E16CA-CU</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4E16EB-ANR</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP  | 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="#">ATSAM4E16EA-CU</a><br>Description: IC MCU 32BIT 1MB FLASH 144LFBGA  | 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="#">ATSAM4E16EA-AN</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP   | 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> |
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|  | 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="#">ATSAM4E16CA-AU</a><br>Description: IC MCU 32BIT 1MB FLASH 100LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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