

ATSAM4SD16BA-AU



Part Number: [ATSAM4SD16BA-AU](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 1MB FLASH 64LQFP

Data sheet:  [SAM4S Series Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

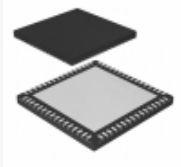
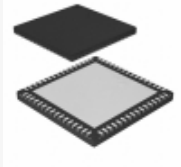
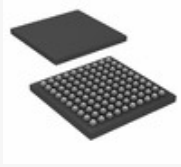
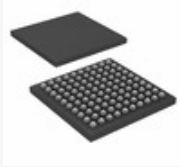
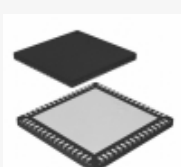
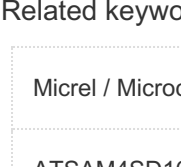
Ship From: Hong Kong

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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                 |                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                              | ATSAM4SD16BA-AU                                                                           | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 1MB FLASH 64LQFP                                                             | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                       | 13439 pcs                                                                                 | Data sheet                      | <a href="#">SAM4S Series Datasheet</a>        |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                                 | Voltage - Supply (Vcc/Vdd)      | 1.62 V ~ 3.6 V                                |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                  | 64-LQFP (10x10)                                                                           | Speed                           | 120MHz                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                   | SAM4S                                                                                     | RAM Size                        | 160K 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                                                                                                                                                                                                                                                                                                                                                                                                                           | 64-LQFP                                                                                   | Oscillator Type                 | Internal                                      |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                    | -40°C ~ 85°C (TA)                                                                         | Number of I/O                   | 47                                            |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                         | 3 (168 Hours)                                                                             | Manufacturer Standard Lead Time | 14 Weeks                                      |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                                | EEPROM Size                     | -                                             |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                     | ARM® Cortex®-M4 SAM4S Microcontroller IC 32-Bit 120MHz 1MB (1M x 8) FLASH 64-LQFP (10x10) | Data Converters                 | A/D 11x12b, D/A 2x12b                         |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                | 32-Bit                                                                                    | Core Processor                  | ARM® Cortex®-M4                               |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                             | I²C, IrDA, Memory Card, SPI, SSC, UART/USART, USB                                         | Base Part Number                | ATSAM4SD16                                    |
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|  | Part#: <a href="#">ATSAM4SD16BB-AN</a><br>Description: FLASH,160K SRAM                   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SD16BA-ANR</a><br>Description: IC MCU 32BIT 1MB FLASH 64LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">ATSAM4SD16BB-UUR</a><br>Description: FLASH,160K SRAM                  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SA16CA-CFU</a><br>Description: IC MCU 32BIT 1MB FLASH 100VFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SA16CA-CUR</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">ATSAM4SD16CA-AN</a><br>Description: IC MCU 32BIT 1MB FLASH 64LQFP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SA16CB-CFNR</a><br>Description: FLASH,160K SRAM                 | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SA16CA-CFUR</a><br>Description: IC MCU 32BIT 1MB FLASH 100VFBGA | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SA16CB-CFN</a><br>Description: FLASH,160K SRAM                  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SA16CA-CU</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SA16CB-ANR</a><br>Description: FLASH,160K SRAM                  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SD16BA-MU</a><br>Description: IC MCU 32BIT 1MB FLASH 64QFN      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM4SD16BB-MN</a><br>Description: FLASH,160K SRAM                   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">ATSAM4SD16CA-ANR</a><br>Description: IC MCU 32BIT 1MB FLASH 64LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

Related keywords for ATSAM4SD16BA-AU

|                                               |                                      |                                        |                       |
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