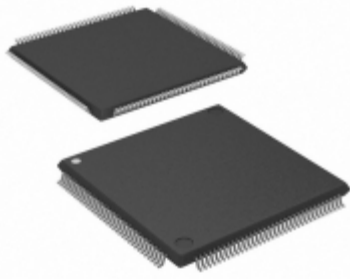


ATSAM3U1EB-AU





Part Number:

ATSAM3U1EB-AU

Manufacturer

Micrel / Microchip Technology

Description

IC MCU 32BIT 64KB FLASH 144LQFP

Data sheet:

 [SAM3U Series](#)

RoHs Status:

Lead free / RoHS Compliant

Ship From:

Hong Kong

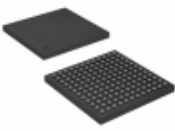
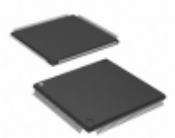
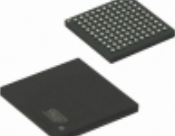
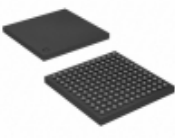
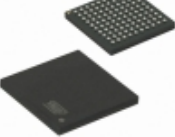
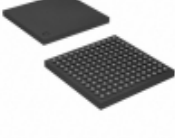
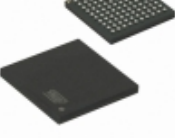
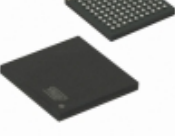
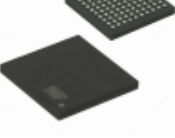
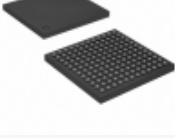
Shipment Way:

DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
Buy ATSAM3U1EB-AU with confidence from  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                              |                                  |                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ATSAM3U1EB-AU                                                | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC MCU 32BIT 64KB FLASH 144LQFP                              | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 21838 pcs                                                    | Data sheet                       | <a href="#">SAM3U Series</a>                                                                |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <a href="#">Integrated Circuits (ICs)</a>                    | Voltage - Supply (Vcc/Vdd)       | 1.62 V ~ 3.6 V                                                                              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 144-LQFP (20x20)                                             | Speed                            | 96MHz                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SAM3U                                                        | RAM Size                         | 20K x 8                                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FLASH                                                        | Program Memory Size              | 64KB (64K x 8)                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT | Packaging                        | Tray                                                                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 144-LQFP                                                     | Other Names                      | ATSAM3U1EBAU                                                                                |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Internal                                                     | Operating Temperature            | -40°C ~ 85°C (TA)                                                                           |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 96                                                           | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                               |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 Weeks                                                      | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                  |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                            | Detailed Description             | ARM® Cortex®-M3 SAM3U Microcontroller IC 32-Bit 96MHz 64KB (64K x 8) FLASH 144-LQFP (20x20) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A/D 8x10b, 8x12b                                             | Core Size                        | 32-Bit                                                                                      |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ARM® Cortex®-M3                                              | Connectivity                     | EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB                           |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ATSAM3U1                                                     |                                  |                                                                                             |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                              |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAM3U1EB-CU</a><br>Description: IC MCU 32BIT 64KB FLASH 144BGA     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U1EA-AU</a><br>Description: IC MCU 32BIT 64KB FLASH 144LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3SD8CA-CUR</a><br>Description: IC MCU 32BIT 512KB FLASH 100BGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U-EK</a><br>Description: KIT EVAL FOR AT91SAM3U CORTEX         | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U2EA-CU</a><br>Description: IC MCU 32BIT 128KB FLASH 144BGA    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U4EA-AU</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U1CA-AU</a><br>Description: IC MCU 32BIT 64KB FLASH 100LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U4CA-CU</a><br>Description: IC MCU 32BIT 256KB FLASH 100BGA    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U2CA-AU</a><br>Description: IC MCU 32BIT 128KB FLASH 100LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3SD8CA-AUR</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3X-EK</a><br>Description: EVAL KIT FOR SAM3X & SAM3A            | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U4CA-AU</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U1CB-AU</a><br>Description: IC MCU 32BIT 64KB FLASH 100LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U4EA-CU</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3SD8CA-CU</a><br>Description: IC MCU 32BIT 512KB FLASH 100BGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U1CA-CU</a><br>Description: IC MCU 32BIT 64KB FLASH 100TFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U1CB-CU</a><br>Description: IC MCU 32BIT 64KB FLASH 100TFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U1EA-CU</a><br>Description: IC MCU 32BIT 64KB FLASH 144BGA     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U2EA-AU</a><br>Description: IC MCU 32BIT 128KB FLASH 144LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAM3U2CA-CU</a><br>Description: IC MCU 32BIT 128KB FLASH 100BGA    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

|                                             |                                    |                                        |                     |
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