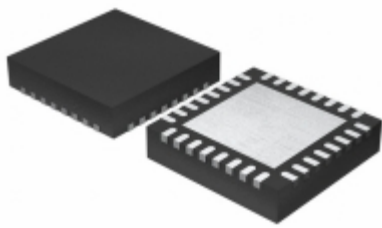


ATSAMDA1E14B-MBT



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Part Number: [ATSAMDA1E14B-MBT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 16KB FLASH 32QFN

Data sheet:  [SAM DA1](#)

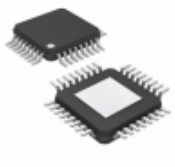
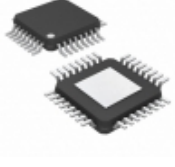
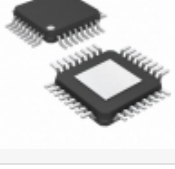
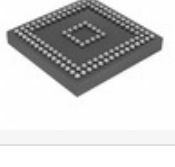
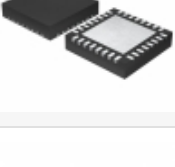
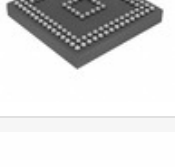
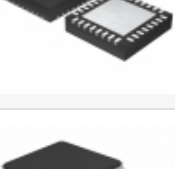
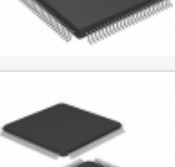
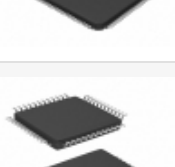
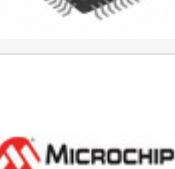
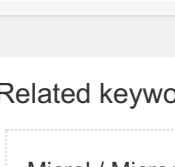
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |                                  |                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ATSAMDA1E14B-MBT                                             | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 16KB FLASH 32QFN                                | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 52100 pcs                                                    | Data sheet                       | <a href="#">SAM DA1</a>                                                                     |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                    | Voltage - Supply (Vcc/Vdd)       | 2.7 V ~ 3.63 V                                                                              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 32-VQFN (5x5)                                                | Speed                            | 48MHz                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SAM DA1                                                      | RAM Size                         | 4K x 8                                                                                      |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                        | Program Memory Size              | 16KB (16K x 8)                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT | Packaging                        | Cut Tape (CT)                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32-VFQFN Exposed Pad                                         | Other Names                      | ATSAMDA1E14B-MBTCT                                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                     | Operating Temperature            | -40°C ~ 105°C (TA)                                                                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 26                                                           | 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®-M0+ SAM DA1 Microcontroller IC 32-Bit 48MHz 16KB (16K x 8) FLASH 32-VQFN (5x5) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 10x12b, D/A 1x10b                                        | Core Size                        | 32-Bit                                                                                      |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ARM® Cortex®-M0+                                             | Connectivity                     | I <sup>2</sup> C, SCI, SPI, UART/USART, USB                                                 |
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| RELATED PRODUCTS                                                                   |                                                                                           |                                                              |                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAMDS1N20A-AUT</a><br>Description: 120MHZ 1024KB FLASH 100 TQFP PKG  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1E15B-ABT</a><br>Description: 32 TQFP 7X7X1.0MM                 | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1E16B-ABT</a><br>Description: 32 TQFP 7X7X1.0MM                 | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1E14B-ABT</a><br>Description: 32 TQFP 7X7X1.0MM                 | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDS1P19A-AUT</a><br>Description: 120MHZ 512KB FLASH 128 TQFP PKG   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDS1P20A-CTUT</a><br>Description: 120MHZ 1024KB FLASH 120 TFBGA PK | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1G14B-MBT</a><br>Description: 48 QFN 5X5X0.9MM                  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1E15B-MBT</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDS1P19A-CTUT</a><br>Description: 120MHZ 512KB FLASH 120 TFBGA PKG | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1E16B-MBT</a><br>Description: IC MCU 32BIT 64KB FLASH 32QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDS1P20A-AUT</a><br>Description: 120MHZ 1024KB FLASH 128 TQFP PKG  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1G15B-ABT</a><br>Description: 48 TQFP 7X7X1.0MM                 | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1G16B-MBT</a><br>Description: 48 QFN 5X5X0.9MM                  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDS1N20A-AU</a><br>Description: 120MHZ 1024KB FLASH 100 TQFP PKG   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDS1P20A-AU</a><br>Description: 120MHZ 1024KB FLASH 128 TQFP PKG   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1G16B-ABT</a><br>Description: 48 TQFP 7X7X1.0MM                 | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1G15B-MBT</a><br>Description: 48 QFN 5X5X0.9MM                  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1G14B-ABT</a><br>Description: 48 TQFP 7X7X1.0MM                 | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDA1-XPRO</a><br>Description: EVAL BOARD FOR SAM DA1               | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMDS1P19A-AU</a><br>Description: 120MHZ 512KB FLASH 128 TQFP PKG    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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