

ATSAML10E15A-MF



Part Number:

ATSAML10E15A-MF

Manufacturer:

Micrel / Microchip Technology

Description:

IC MCU 32BIT 32KB FLASH 32VQFN

Data sheet:

 [SAM L10/L11 Family Sellsheet](#)

 [SAM L10/L11 Family Datasheet](#)

RoHs Status:

Lead free / RoHS Compliant

Ship From:

Hong Kong

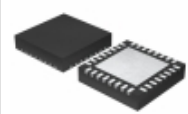
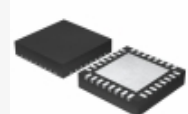
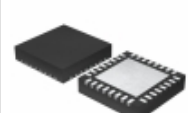
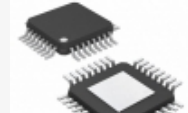
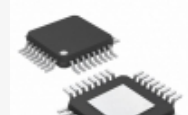
Shipment Way:

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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                             |                                 |                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ATSAML10E15A-MF                                                                             | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 32KB FLASH 32VQFN                                                              | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 57461 pcs                                                                                   | Data sheet                      | <a href="#">SAM L10/L11 Family Sellsheet</a><br><a href="#">SAM L10/L11 Family Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                                   | Voltage - Supply (Vcc/Vdd)      | 1.62 V ~ 3.63 V                                                                              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32-VQFN (5x5)                                                                               | Speed                           | 32MHz                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SAM L10                                                                                     | RAM Size                        | 8K x 8                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                                                       | Program Memory Size             | 32KB (32K x 8)                                                                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Brown-out Detect/Reset, DMA, POR, PWM, WDT                                                  | Packaging                       | Tray                                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 32-VFQFN Exposed Pad                                                                        | Oscillator Type                 | Internal                                                                                     |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 125°C (TA)                                                                          | Number of I/O                   | 25                                                                                           |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                                                                               | Manufacturer Standard Lead Time | 16 Weeks                                                                                     |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                                  | EEPROM Size                     | 2K x 8                                                                                       |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARM® Cortex®-M23 SAM L10 Microcontroller IC 32-Bit 32MHz 32KB (32K x 8) FLASH 32-VQFN (5x5) | Data Converters                 | A/D 10x12b, D/A 1x10b                                                                        |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32-Bit                                                                                      | Core Processor                  | ARM® Cortex®-M23                                                                             |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | I²C, LINbus, SPI, UART/USART                                                                |                                 |                                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                              |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAML10E15A-MUT</a><br>Description: IC MCU 32BIT 32KB FLASH 32VQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAML10E15A-MFT</a><br>Description: IC MCU 32BIT 32KB FLASH 32VQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAML10E16A-MFT</a><br>Description: IC MCU 32BIT 64KB FLASH 32VQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAML10E16A-AFT</a><br>Description: IC MCU 32BIT 64KB FLASH 32TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAML10E15A-AFT</a><br>Description: IC MCU 32BIT 32KB FLASH 32TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAML10E16A-AUT</a><br>Description: IC MCU 32BIT 64KB FLASH 32TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAML10E14A-UUT</a><br>Description: IC MCU 32BIT 16KB FLASH 32WLCSP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAML10E16A-MF</a><br>Description: IC MCU 32BIT 64KB FLASH 32VQFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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