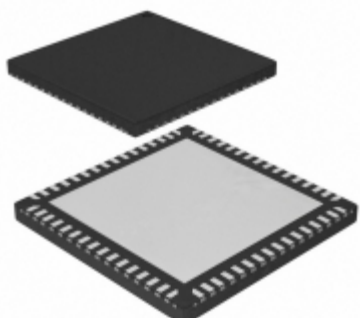


ATSAME53J20A-MU





Part Number: [ATSAME53J20A-MU](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 1MB FLASH 64QFN

Data sheet:  [SAM D5x,E5x Family Datasheet](#)  
 [SAM D5x,E5x Family Errata](#)

RoHs Status: Lead free / RoHS Compliant

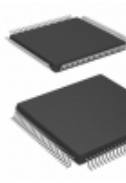
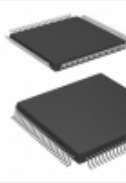
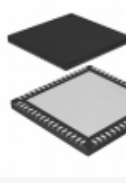
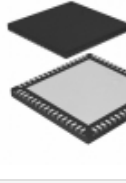
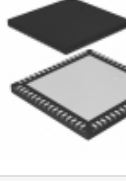
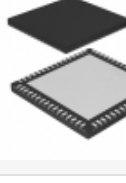
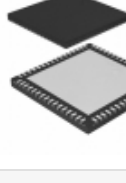
Ship From: Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |                                 |                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ATSAME53J20A-MU                                                                            | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 1MB FLASH 64QFN                                                               | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18053 pcs                                                                                  | Data sheet                      | <a href="#">SAM D5x,E5x Family Datasheet</a><br><a href="#">SAM D5x,E5x Family Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                                  | Voltage - Supply (Vcc/Vdd)      | 1.71 V ~ 3.63 V                                                                           |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-VQFN (9x9)                                                                              | Speed                           | 120MHz                                                                                    |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SAM E53                                                                                    | RAM Size                        | 256K x 8                                                                                  |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                                                      | Program Memory Size             | 1MB (1M x 8)                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT                               | Packaging                       | Tray                                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64-VFQFN Exposed Pad                                                                       | Oscillator Type                 | Internal                                                                                  |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 85°C (TA)                                                                          | Number of I/O                   | 51                                                                                        |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                                                                              | Manufacturer Standard Lead Time | 19 Weeks                                                                                  |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                                 | EEPROM Size                     | -                                                                                         |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARM® Cortex®-M4F SAM E53 Microcontroller IC 32-Bit 120MHz 1MB (1M x 8) FLASH 64-VQFN (9x9) | Data Converters                 | A/D 24x12b, D/A 2x12b                                                                     |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32-Bit                                                                                     | Core Processor                  | ARM® Cortex®-M4F                                                                          |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB      |                                 |                                                                                           |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">ATSAME54N20A-AUT</a><br>Description: IC MCU 32BIT 1MB FLASH 100TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME54N19A-AU</a><br>Description: IC MCU 32BIT 512KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53J19A-MUT</a><br>Description: IC MCU 32BIT 512KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53N19A-AUT</a><br>Description: IC MCU 32BIT 512KB FLASH 100TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53J18A-AUT</a><br>Description: IC MCU 32BIT 256KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53J18A-AU</a><br>Description: IC MCU 32BIT 256KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME54-XPRO</a><br>Description: SAM E54 XPLAINED PRO                | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53J20A-AUT</a><br>Description: IC MCU 32BIT 1MB FLASH 64TQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53N20A-AUT</a><br>Description: IC MCU 32BIT 1MB FLASH 100TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53J18A-MU</a><br>Description: IC MCU 32BIT 256KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53J19A-AUT</a><br>Description: IC MCU 32BIT 512KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53J19A-MU</a><br>Description: IC MCU 32BIT 512KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME53J20A-MUT</a><br>Description: IC MCU 32BIT 1MB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAME54N19A-AUT</a><br>Description: IC MCU 32BIT 512KB FLASH 100TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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