

ATSAMD20J14A-AUT



Part Number: [ATSAMD20J14A-AUT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 16KB FLASH 64LQFP

Data sheet:  [SAM D20\(E,G,J\) Summary](#)  
 [SAM D20 Family Silicon Errata](#)  
 [SAM D20 Family Complete Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

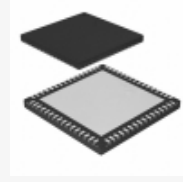
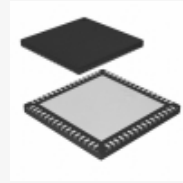
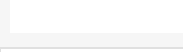
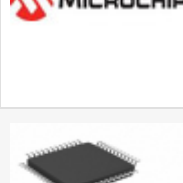
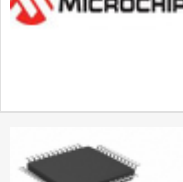
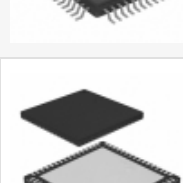
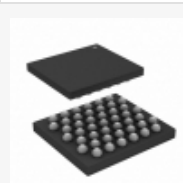
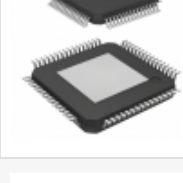
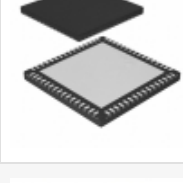
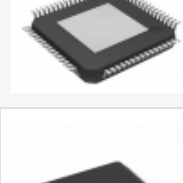
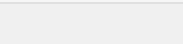
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                  |                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ATSAMD20J14A-AUT                          | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 16KB FLASH 64LQFP            | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 56373 pcs                                 | Data sheet                       | <a href="#">SAM D20(E,G,J) Summary</a><br><a href="#">SAM D20 Family Silicon Errata</a><br><a href="#">SAM D20 Family Complete 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                            | 48MHz                                                                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SAM D20J                                  | RAM Size                         | 2K x 8                                                                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                     | Program Memory Size              | 16KB (16K x 8)                                                                                                                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brown-out Detect/Reset, POR, WDT          | Packaging                        | Tape & Reel (TR)                                                                                                                             |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 64-LQFP                                   | Other Names                      | ATSAMD20J14A-AUTTR                                                                                                                           |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                            |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 52                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 27 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                   |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                         | Detailed Description             | ARM® Cortex®-M0+ SAM D20J Microcontroller IC 32-Bit 48MHz 16KB (16K x 8) FLASH 64-LQFP (10x10)                                               |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 20x12b, D/A 1x10b                     | Core Size                        | 32-Bit                                                                                                                                       |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ARM® Cortex®-M0+                          | Connectivity                     | I²C, SPI, UART/USART                                                                                                                         |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ATSAMD20J14                               |                                  |                                                                                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAMD20G18A-MU</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-MUT</a><br>Description: IC MCU 32BIT 16KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-AU</a><br>Description: IC MCU 32BIT 16KB FLASH 64LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-MN</a><br>Description: IC MCU 32BIT 16KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20G18A-MNT</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-CU</a><br>Description: IC MCU 32BIT 16KB FLASH 64UFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20G18A-MUT</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20G18A-AU</a><br>Description: IC MCU 32BIT 256KB FLASH 48TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-CNT</a><br>Description: IC MCU 32BIT 16KB FLASH 64UFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20G18A-AUT</a><br>Description: IC MCU 32BIT 256KB FLASH 48TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-MNT</a><br>Description: IC MCU 32BIT 16KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20G18A-UUT</a><br>Description: IC MCU 32BIT 256KB FLASH 45WLCSP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14B-AU</a><br>Description: 64TQFP IND TEMP, GREEN,1.6-3.6V,  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-CUT</a><br>Description: IC MCU 32BIT 16KB FLASH 64UFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-MU</a><br>Description: IC MCU 32BIT 16KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14B-AUT</a><br>Description: 64TQFP IND TEMP, GREEN,1.6-3.6V, | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-AN</a><br>Description: IC MCU 32BIT 16KB FLASH 64TQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-ANT</a><br>Description: IC MCU 32BIT 16KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20J14A-CN</a><br>Description: IC MCU 32BIT 16KB FLASH 64UFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD20G18A-MN</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

|                                                |                                       |                                        |                        |
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