

ATSAMD21J16A-MU



Part Number: [ATSAMD21J16A-MU](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 64KB FLASH 64QFN

Data sheet:  [SAM D21E,G,J Summary](#)  
 [SAM D21E,G,J Complete](#)

RoHs Status: Lead free / RoHS Compliant

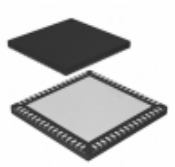
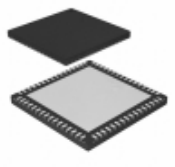
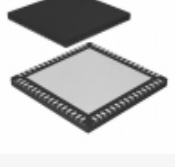
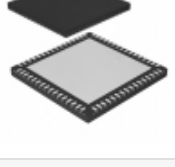
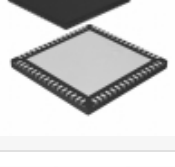
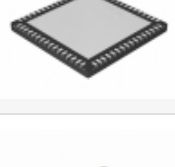
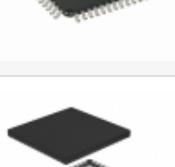
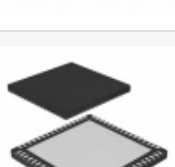
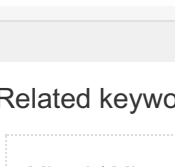
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                              |                                  |                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ATSAMD21J16A-MU                                                                              | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                 |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 64KB FLASH 64QFN                                                                | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 109858 pcs                                                                                   | Data sheet                       | <a href="#">SAM D21E,G,J Summary</a><br><a href="#">SAM D21E,G,J Complete</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                                    | Voltage - Supply (Vcc/Vdd)       | 1.62 V ~ 3.6 V                                                                |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 64-VQFN (9x9)                                                                                | Speed                            | 48MHz                                                                         |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SAM D21J                                                                                     | RAM Size                         | 8K 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 64-VFQFN Exposed Pad                                                                         | Other Names                      | 1611-ATSAMD21J16A-MU                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                                                     | Operating Temperature            | -40°C ~ 85°C (TA)                                                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 52                                                                                           | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                 |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                                   | EEPROM Size                      | -                                                                             |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ARM® Cortex®-M0+ SAM D21J Microcontroller IC 32-Bit 48MHz 64KB (64K x 8) FLASH 64-VQFN (9x9) | Data Converters                  | A/D 20x12b, D/A 1x10b                                                         |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32-Bit                                                                                       | Core Processor                   | ARM® Cortex®-M0+                                                              |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I <sup>2</sup> C, LINbus, SPI, UART/USART, USB                                               |                                  |                                                                               |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                              |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAMD21J16B-MU</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J15B-MUT</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16B-AUT</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16B-MFT</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16A-MUT</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16B-MUT</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16B-AFT</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16B-AF</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16A-CUT</a><br>Description: IC MCU 32BIT 64KB FLASH 64UFBGA | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J15B-MFT</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16A-AFT</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J15B-MF</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16A-CU</a><br>Description: IC MCU 32BIT 64KB FLASH 64UFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J15B-AUT</a><br>Description: IC MCU 32BIT 32KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16B-MF</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J17A-AF</a><br>Description: IC MCU 32BIT 128KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16A-AUT</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16A-AU</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J16B-AU</a><br>Description: IC MCU 32BIT 64KB FLASH 64TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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