

ATSAMD21G18A-AU



Part Number:

ATSAMD21G18A-AU

Manufacturer:

Micrel / Microchip Technology

Description:

IC MCU 32BIT 256KB FLASH 48TQFP

Data sheet:

 [SAM D21E,G,J Summary](#)

 [SAM D21E,G,J Complete](#)

RoHs Status:

Lead free / RoHS Compliant

Ship From:

Hong Kong

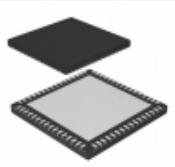
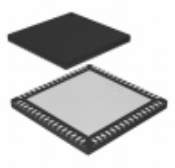
Shipment Way:

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |                                 |                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ATSAMD21G18A-AU                                                                                | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                 |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 256KB FLASH 48TQFP                                                                | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 39289 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 48-TQFP (7x7)                                                                                  | Speed                           | 48MHz                                                                         |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SAM D21G                                                                                       | RAM Size                        | 32K x 8                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                                                          | Program Memory Size             | 256KB (256K x 8)                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT                                   | Packaging                       | Tray                                                                          |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 48-TQFP                                                                                        | Oscillator Type                 | Internal                                                                      |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 85°C (TA)                                                                              | Number of I/O                   | 38                                                                            |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                                                                                  | Manufacturer Standard Lead Time | 20 Weeks                                                                      |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                                     | EEPROM Size                     | -                                                                             |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARM® Cortex®-M0+ SAM D21G Microcontroller IC 32-Bit 48MHz 256KB (256K x 8) FLASH 48-TQFP (7x7) | Data Converters                 | A/D 14x12b, D/A 1x10b                                                         |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32-Bit                                                                                         | Core Processor                  | ARM® Cortex®-M0+                                                              |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | I <sup>2</sup> C, LINbus, SPI, UART/USART, USB                                                 | Base Part Number                | ATSAMD21G18                                                                   |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAMD21G18A-AFT</a><br>Description: IC MCU 32BIT 256KB FLASH 48TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J15A-MUT</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G17A-AU</a><br>Description: IC MCU 32BIT 128KB FLASH 48TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J15A-AU</a><br>Description: IC MCU 32BIT 32KB FLASH 64TQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21J15A-MU</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G18A-MF</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G17A-AUT</a><br>Description: IC MCU 32BIT 128KB FLASH 48TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G18A-AF</a><br>Description: IC MCU 32BIT 256KB FLASH 48TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G18A-MU</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G17A-MFT</a><br>Description: IC MCU 32BIT 128KB FLASH 48QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G17A-MUT</a><br>Description: IC MCU 32BIT 128KB FLASH 48QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G18A-AUT</a><br>Description: IC MCU 32BIT 256KB FLASH 48TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G18A-MUT</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G17A-MU</a><br>Description: IC MCU 32BIT 128KB FLASH 48QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G17A-UUT</a><br>Description: IC MCU 32BIT 128KB FLASH 45WLCSP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G18A-UUT</a><br>Description: IC MCU 32BIT 256KB FLASH 45WLCSP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G17A-MF</a><br>Description: IC MCU 32BIT 128KB FLASH 48QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMD21G18A-MFT</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">ATSAMD21G17A-AFT</a><br>Description: IC MCU 32BIT 128KB FLASH 48TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

|                                               |                                      |                                        |                       |
|-----------------------------------------------|--------------------------------------|----------------------------------------|-----------------------|
| Related keywords for <b>ATSAMD21G18A-AU</b>   |                                      |                                        |                       |
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