


**Micrel / Microchip Technology**



Image may be representation. See specifications for product details.

**ATSAMD21E16B-AFT**

|                     |                                                                                                                                                                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number:        | ATSAMD21E16B-AFT                                                                                                                                                                                                                                                            |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                                                                                                                                                                               |
| Product description | IC MCU 32BIT 64KB FLASH 32TQFP                                                                                                                                                                                                                                              |
| Datasheets:         | <div>  <a href="#">1.ATSAMD21E16B-AFT.pdf</a> </div> <div>  <a href="#">2.ATSAMD21E16B-AFT.pdf</a> </div> |
| RoHs Status         |  Lead free / RoHS Compliant                                                                                                                                                                |
| Stock Condition     | 41368 pcs stock                                                                                                                                                                                                                                                             |
| Ship From           | Hong Kong                                                                                                                                                                                                                                                                   |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                                                                                                                                                                                       |

REQUEST FOR QUOTATION

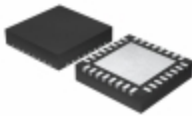
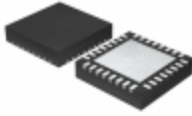
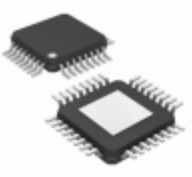
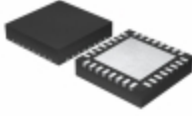
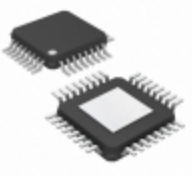
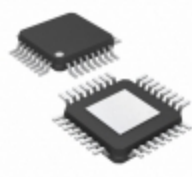
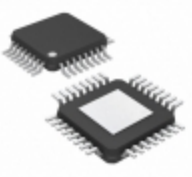
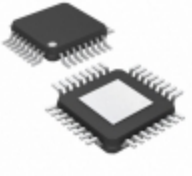
Specifications of ATSAMD21E16B-AFT

|                                  |                                                                                                                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | ATSAMD21E16B-AFT                                                                                                                                                                                                                                                                |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                   |
| DESCRIPTION                      | IC MCU 32BIT 64KB FLASH 32TQFP                                                                                                                                                                                                                                                  |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                      |
| QUANTITY AVAILABLE               | 41368 pcs                                                                                                                                                                                                                                                                       |
| DATA SHEET                       | <div>  <a href="#">1.ATSAMD21E16B-AFT.pdf</a> </div> <div>  <a href="#">2.ATSAMD21E16B-AFT.pdf</a> </div> |
| VOLTAGE - SUPPLY (VCC/VDD)       | 1.62 V ~ 3.6 V                                                                                                                                                                                                                                                                  |
| SUPPLIER DEVICE PACKAGE          | 32-TQFP (7x7)                                                                                                                                                                                                                                                                   |
| SPEED                            | 48MHz                                                                                                                                                                                                                                                                           |
| SERIES                           | SAM D21E                                                                                                                                                                                                                                                                        |
| RAM SIZE                         | 8K x 8                                                                                                                                                                                                                                                                          |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                           |
| PROGRAM MEMORY SIZE              | 64KB (64K x 8)                                                                                                                                                                                                                                                                  |
| PERIPHERALS                      | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT                                                                                                                                                                                                                                 |
| PACKAGING                        | Cut Tape (CT)                                                                                                                                                                                                                                                                   |
| PACKAGE / CASE                   | 32-TQFP                                                                                                                                                                                                                                                                         |
| OTHER NAMES                      | ATSAMD21E16B-AFTCT                                                                                                                                                                                                                                                              |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                        |
| OPERATING TEMPERATURE            | -40°C ~ 125°C (TA)                                                                                                                                                                                                                                                              |
| NUMBER OF I/O                    | 26                                                                                                                                                                                                                                                                              |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                   |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                      |
| EEPROM SIZE                      | -                                                                                                                                                                                                                                                                               |
| DETAILED DESCRIPTION             | ARM® Cortex®-M0+ SAM D21E Microcontroller IC 32-Bit 48MHz 64KB (64K x 8) FLASH 32-TQFP (7x7)                                                                                                                                                                                    |
| DATA CONVERTERS                  | A/D 10x12b, D/A 1x10b                                                                                                                                                                                                                                                           |
| CORE SIZE                        | 32-Bit                                                                                                                                                                                                                                                                          |
| CORE PROCESSOR                   | ARM® Cortex®-M0+                                                                                                                                                                                                                                                                |
| CONNECTIVITY                     | I²C, LINbus, SPI, UART/USART, USB                                                                                                                                                                                                                                               |
| BASE PART NUMBER                 | ATSAMD21E16                                                                                                                                                                                                                                                                     |

Related Tags

|                                                |                                        |                                                         |
|------------------------------------------------|----------------------------------------|---------------------------------------------------------|
| Micrel / Microchip Technology ATSAMD21E16B-AFT | ATSAMD21E16B-AFT Distributor           | ATSAMD21E16B-AFT Supplier                               |
| ATSAMD21E16B-AFT Price                         | ATSAMD21E16B-AFT Pictures              | ATSAMD21E16B-AFT Image                                  |
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| Micrel / Microchip Technology ATSAMD21E16B-AFT | Microchip Technology ATSAMD21E16B-AFT  | Roving Networks / Microchip Technology ATSAMD21E16B-AFT |

Related Products

|                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                            |
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| <div>  </div> <div> <b>ATSAMD21E16B-MFT</b><br/>           Manufacturers: Micrel / Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32QFN<br/>           In stock: 59566 pcs         </div> <div>           RFQ         </div>  | <div>  </div> <div> <b>ATSAMD21E16B-AFT</b><br/>           Manufacturers: Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32TQFP<br/>           In stock: 50113 pcs         </div> <div>           RFQ         </div>          |
| <div>  </div> <div> <b>ATSAMD21E16A-MUT</b><br/>           Manufacturers: Micrel / Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32QFN<br/>           In stock: 56389 pcs         </div> <div>           RFQ         </div>  | <div>  </div> <div> <b>ATSAMD21E16A-AU</b><br/>           Manufacturers: Micrel / Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32TQFP<br/>           In stock: 222840 pcs         </div> <div>           RFQ         </div> |
| <div>  </div> <div> <b>ATSAMD21E16B-MF</b><br/>           Manufacturers: Micrel / Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32QFN<br/>           In stock: 41481 pcs         </div> <div>           RFQ         </div>   | <div>  </div> <div> <b>ATSAMD21E16B-AF</b><br/>           Manufacturers: Micrel / Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32TQFP<br/>           In stock: 50024 pcs         </div> <div>           RFQ         </div>  |
| <div>  </div> <div> <b>ATSAMD21E16A-MU</b><br/>           Manufacturers: Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32QFN<br/>           In stock: 67797 pcs         </div> <div>           RFQ         </div>            | <div>  </div> <div> <b>ATSAMD21E15L-MNT</b><br/>           Manufacturers: Microchip Technology<br/>           Description: IC MCU 32BIT 32KB FLASH 32QFN<br/>           In stock: 64753 pcs         </div> <div>           RFQ         </div>           |
| <div>  </div> <div> <b>ATSAMD21E16B-AUT</b><br/>           Manufacturers: Micrel / Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32TQFP<br/>           In stock: 45923 pcs         </div> <div>           RFQ         </div> | <div>  </div> <div> <b>ATSAMD21E16A-AUT</b><br/>           Manufacturers: Micrel / Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32TQFP<br/>           In stock: 55657 pcs         </div> <div>           RFQ         </div> |
| <div>  </div> <div> <b>ATSAMD21E16B-AUT</b><br/>           Manufacturers: Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32TQFP<br/>           In stock: 49791 pcs         </div> <div>           RFQ         </div>          | <div>  </div> <div> <b>ATSAMD21E16B-AU</b><br/>           Manufacturers: Micrel / Microchip Technology<br/>           Description: IC MCU 32BIT 64KB FLASH 32TQFP<br/>           In stock: 50356 pcs         </div> <div>           RFQ         </div>  |