

AT32UC3A1512-AUR





Part Number: [AT32UC3A1512-AUR](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 512KB FLASH 100TQFP

Data sheet:  [AT32UC3A Summary](#)  
 [AT32UC3A Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

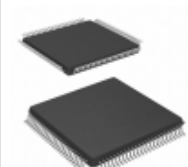
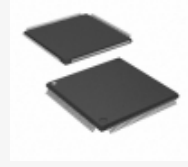
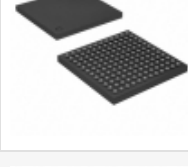
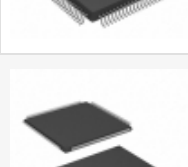
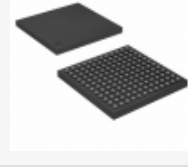
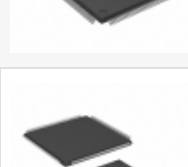
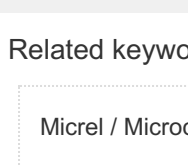
Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                  |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AT32UC3A1512-AUR                          | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 512KB FLASH 100TQFP          | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10890 pcs                                 | Data sheet                       | <a href="#">AT32UC3A Summary</a><br><a href="#">AT32UC3A Datasheet</a>                    |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 1.65 V ~ 3.6 V                                                                            |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100-TQFP (14x14)                          | Speed                            | 66MHz                                                                                     |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AVR®32 UC3 A1                             | RAM Size                         | 64K x 8                                                                                   |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                     | Program Memory Size              | 512KB (512K x 8)                                                                          |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brown-out Detect/Reset, POR, PWM, WDT     | Packaging                        | Tape & Reel (TR)                                                                          |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100-TQFP                                  | Other Names                      | AT32UC3A1512-AUR-ND<br>AT32UC3A1512-AURTR<br>AT32UC3A1512AUR                              |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                         |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 69                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                             |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 Weeks                                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                         | Detailed Description             | AVR AVR®32 UC3 A1 Microcontroller IC 32-Bit 66MHz 512KB (512K x 8) FLASH 100-TQFP (14x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 8x10b                                 | Core Size                        | 32-Bit                                                                                    |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AVR                                       | Connectivity                     | Ethernet, I²C, SPI, SSC, UART/USART, USB OTG                                              |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AT32UC3A1512                              |                                  |                                                                                           |
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| RELATED PRODUCTS                                                                   |                                                                                              |                                                              |                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">AT32UC3A1128-AUT</a><br>Description: IC MCU 32BIT 128KB FLASH 100TQFP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">AT32UC3A3128S-ALUR</a><br>Description: IC MCU 32BIT 128KB FLASH 144LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">AT32UC3A0512-CTUT</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">AT32UC3A0512-ALUT</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">AT32UC3A3128S-ALUT</a><br>Description: IC MCU 32BIT 128KB FLASH 144LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">AT32UC3A1128-AUR</a><br>Description: IC MCU 32BIT 128KB FLASH 100TQFP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">AT32UC3A0512-CTUR</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">AT32UC3A3128S-CTUR</a><br>Description: IC MCU 32BIT 128KB FLASH 144BGA    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">AT32UC3A1256-AUT</a><br>Description: IC MCU 32BIT 256KB FLASH 100TQFP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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