

ATMEGA32M1-15AZ



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Part Number: [ATMEGA32M1-15AZ](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 8BIT 32KB FLASH 32TQFP

Data sheet:  [ATmega16,32,64\(C1,M1\) Auto Datasheet](#)  
 [ATmega16,32,64\(C1,M1\) Auto Summary](#)  
 [ATmega16,32,64\(C1,M1\) Appendix A](#)

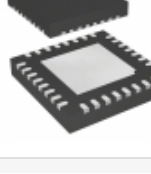
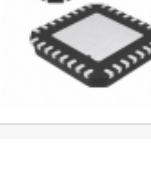
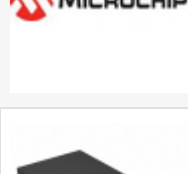
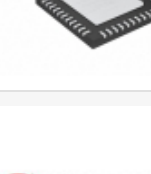
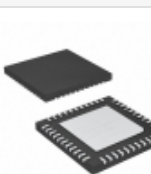
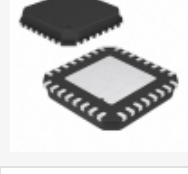
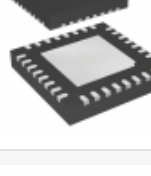
RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |                                |                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ATMEGA32M1-15AZ                                    | Manufacturer                   | <a href="#">Micrel / Microchip Technology</a>                                                                                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 8BIT 32KB FLASH 32TQFP                      | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 23643 pcs                                          | Data sheet                     | <a href="#">ATmega16,32,64(C1,M1) Auto Datasheet</a><br><a href="#">ATmega16,32,64(C1,M1) Auto Summary</a><br><a href="#">ATmega16,32,64(C1,M1) Appendix A</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>          | Voltage - Supply (Vcc/Vdd)     | 2.7 V ~ 5.5 V                                                                                                                                                  |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32-TQFP (7x7)                                      | Speed                          | 16MHz                                                                                                                                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Automotive, AEC-Q100, AVR® ATmega                  | RAM Size                       | 2K x 8                                                                                                                                                         |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                              | Program Memory Size            | 32KB (16K x 16)                                                                                                                                                |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT | Packaging                      | Cut Tape (CT)                                                                                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 32-TQFP                                            | Other Names                    | ATMEGA32M1-15AZCT                                                                                                                                              |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                           | Operating Temperature          | -40°C ~ 125°C (TA)                                                                                                                                             |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                                      | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                     |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1K x 8                                             | Detailed Description           | AVR Automotive, AEC-Q100, AVR® ATmega Microcontroller IC 8-Bit 16MHz 32KB (16K x 16) FLASH 32-TQFP (7x7)                                                       |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 11x10b; D/A 1x10b                              | Core Size                      | 8-Bit                                                                                                                                                          |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AVR                                                | Connectivity                   | CANbus, LINbus, SPI, UART/USART                                                                                                                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ATMEGA32                                           |                                |                                                                                                                                                                |
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| RELATED PRODUCTS                                                                   |                                                                                      |                                                              |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATMEGA32U4-AU</a><br>Description: IC MCU 8BIT 32KB FLASH 44TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32U2-AUR</a><br>Description: IC MCU 8BIT 32KB FLASH 32TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32M1-15MD</a><br>Description: IC MCU 8BIT 32KB FLASH 32QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32M1-AU</a><br>Description: IC MCU 8BIT 32KB FLASH 32TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32M1-MU</a><br>Description: IC MCU 8BIT 32KB FLASH 32VQFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8PJ</a><br>Description: IC MCU 8BIT 32KB FLASH 40DIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8MU</a><br>Description: IC MCU 8BIT 32KB FLASH 44VQFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8PU</a><br>Description: IC MCU 8BIT 32KB FLASH 40DIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8MUR</a><br>Description: IC MCU 8BIT 32KB FLASH 44VQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32U2-MU</a><br>Description: IC MCU 8BIT 32KB FLASH 32VQFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8MI</a><br>Description: IC MCU 8BIT 32KB FLASH 44VQFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8MC</a><br>Description: IC MCU 8BIT 32KB FLASH 44VQFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8MJ</a><br>Description: IC MCU 8BIT 32KB FLASH 44VQFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8PC</a><br>Description: IC MCU 8BIT 32KB FLASH 40DIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32L-8PI</a><br>Description: IC MCU 8BIT 32KB FLASH 40DIP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32U2-MUR</a><br>Description: IC MCU 8BIT 32KB FLASH 32VQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32M1-15MZ</a><br>Description: IC MCU 8BIT 32KB FLASH 32QFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32M1-AUR</a><br>Description: IC MCU 8BIT 32KB FLASH 32TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32M1-15AD</a><br>Description: IC MCU 8BIT 32KB FLASH 32TQFP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATMEGA32U2-AU</a><br>Description: IC MCU 8BIT 32KB FLASH 32TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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