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See specifications for product details.



ATMEGA32M1-15MD

Manufacturer Part Number **ATMEGA32M1-15MD**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-ATMEGA32M1-15MD**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 8BIT 32KB FLASH 32QFN**

Package **32-VQFN Exposed Pad**

Data sheet [ATmega16,32,64\(C1,M1\) Appendix A.pdf](#)

[ATmega16,32,64\(C1,M1\) Auto Datasheet.pdf](#)

[ATmega16,32,64\(C1,M1\) Auto Summary.pdf](#)

RoHs Status **ROHS3 Compliant**

Get a Quote

ATMEGA32M1-15MD - Microchip Technology. New Original in Stock. Download Linear Technology ATMEGA32M1-15MD datasheet/specifications on AllelcoElec.com. Request a quote for ATMEGA32M1-15MD, please send us email: info@allelco.com

Specifications

ATMEGA32M1-15MD Tech Specifications
ATMEGA32M1-15MD - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Package	Tape & Reel (TR)
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	Oscillator Type	Internal
Supplier Device Package	32-QFN (7x7)	Operating Temperature	-40°C ~ 150°C (TA)
Speed	16MHz	Mounting Type	Surface Mount
Series	Automotive, AEC-Q100, AVR® ATmega	EEPROM Size	1K x 8
RAM Size	2K x 8	Data Converters	A/D 11x10b; D/A 1x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	32KB (16K x 16)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT	Connectivity	CANbus, LINbus, SPI, UART/USART
Package / Case	32-VQFN Exposed Pad	Base Product Number	ATMEGA32

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA32M1-15MD

Product Attribute				
Part Number	ATMEGA32M1-15MD	ATMEGA32U2-MUR	ATMEGA32L-8MU	ATMEGA32M1-15AD
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Tape & Reel (TR)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Base Product Number	ATMEGA32	ATMEGA32	ATMEGA32	ATMEGA32
Supplier Device Package	32-QFN (7x7)	32-VQFN (5x5)	44-VQFN (7x7)	32-TQFP (7x7)
Connectivity	CANbus, LINbus, SPI, UART/USART	SPI, UART/USART, USB	I ² C, SPI, UART/USART	CANbus, LINbus, SPI, UART/USART
Series	Automotive, AEC-Q100, AVR® ATmega	AVR® ATmega	AVR® ATmega	Automotive, AEC-Q100, AVR® ATmega
Program Memory Size	32KB (16K x 16)	32KB (16K x 16)	32KB (16K x 16)	32KB (16K x 16)
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Speed	16MHz	16MHz	8MHz	16MHz
Package / Case	32-VQFN Exposed Pad	32-VFQFN Exposed Pad	44-VFQFN Exposed Pad	32-TQFP
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Oscillator Type	Internal	Internal	Internal	Internal
RAM Size	2K x 8	1K x 8	2K x 8	2K x 8
Data Converters	A/D 11x10b; D/A 1x10b	-	A/D 8x10b	A/D 11x10b; D/A 1x10b
Peripherals	Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT
Core Processor	AVR	AVR	AVR	AVR
EEPROM Size	1K x 8	1K x 8	1K x 8	1K x 8
Operating Temperature	-40°C ~ 150°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 150°C (TA)

ATMEGA32M1-15MD Datasheet PDF

Download ATMEGA32M1-15MD pdf datasheets and Microchip Technology documentation for ATMEGA32M1-15MD - Microchip Technology.

Datasheets

[ATmega16,32,64\(C1,M1\) Appendix A.pdf](#)

[ATmega16,32,64\(C1,M1\) Auto Datasheet.pdf](#)

[ATmega16,32,64\(C1,M1\) Auto Summary.pdf](#)

PCN Packaging

[MBB/Label Chgs 16/Nov/2018.pdf](#)

[Boxes 07/Dec/2016.pdf](#)

PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf

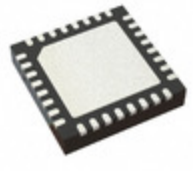
PCN Assembly/Origin



Mult Dev 11/Dec/2019.pdf

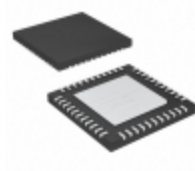
Customers Also Interested in

Recommended Products



ATMEGA32U2-MUR

Microchip Technology
IC MCU 8BIT 32KB FLASH 32VQFN



ATMEGA32L-8MU

Microchip Technology
IC MCU 8BIT 32KB FLASH 44VQFN



ATMEGA32M1-15AD

Microchip Technology
IC MCU 8BIT 32KB FLASH 32TQFP



ATMEGA32M1-AUR

Microchip Technology
IC MCU 8BIT 32KB FLASH 32TQFP



ATMEGA32M1-15AZ

Microchip Technology
IC MCU 8BIT 32KB FLASH 32TQFP



ATMEGA32L-8AU

Microchip Technology
IC MCU 8BIT 32KB FLASH 44TQFP



ATMEGA32L-8MU

Atmel
IC MCU 8BIT 32KB FLASH 44VQFN



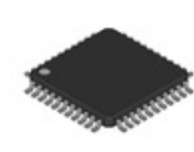
ATMEGA32U2-AU

Microchip Technology
IC MCU 8BIT 32KB FLASH 32TQFP



ATMEGA32U4-AU

Microchip Technology
IC MCU 8BIT 32KB FLASH 44TQFP



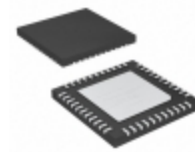
ATMEGA32U4-AU

Atmel
IC MCU 8BIT 32KB FLASH 44TQFP



ATMEGA32U4-AUR

Microchip Technology
IC MCU 8BIT 32KB FLASH 44TQFP



ATMEGA32L-8MUR

Microchip Technology
IC MCU 8BIT 32KB FLASH 44VQFN



ATMEGA32U2-AUR

Microchip Technology
IC MCU 8BIT 32KB FLASH 32TQFP



ATMEGA32L-8PI

Microchip Technology
IC MCU 8BIT 32KB FLASH 40DIP



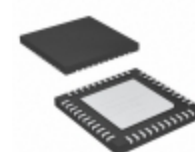
ATMEGA32U2-MU

Microchip Technology
IC MCU 8BIT 32KB FLASH 32VQFN



ATMEGA32L-8AUR

Microchip Technology
IC MCU 8BIT 32KB FLASH 44TQFP



ATMEGA32U4-MU

Microchip Technology
IC MCU 8BIT 32KB FLASH 44VQFN



ATMEGA32L-8MUR

Atmel
IC MCU 8BIT 32KB FLASH 44VQFN

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



Your Faithful Supply Chain Partner -



Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



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Certifications & Memberships



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