

Image may be representation.
See specifications for product details.



ATMEGA32U4-MU

Manufacturer Part Number	ATMEGA32U4-MU
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATMEGA32U4-MU
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 8BIT 32KB FLASH 44VQFN
Package	44-VFQFN Exposed Pad
Data sheet	ATmega16U4,32U4 Datasheet.pdf ATmega16U4,32U4 Summary.pdf USB DFU Bootloader Datasheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATMEGA32U4-MU - Microchip Technology. New Original in Stock. Download Linear Technology ATMEGA32U4-MU datasheet/specifications on AllelcoElec.com.
Request a quote for ATMEGA32U4-MU, please send us email: info@allelco.com

Specifications

ATMEGA32U4-MU Tech Specifications
ATMEGA32U4-MU - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	44-VQFN (7x7)	Number of I/O	26
Speed	16MHz	Mounting Type	Surface Mount
Series	AVR® ATmega	EEPROM Size	1K x 8
RAM Size	2.5K x 8	Data Converters	A/D 12x10b
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, WDT	Connectivity	I²C, SPI, UART/USART, USB
Package / Case	44-VFQFN Exposed Pad	Base Product Number	ATMEGA32
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA32U4-MU

Product Attribute				
Part Number	ATMEGA32U4-MU	ATMEGA32U4-AUR	ATMEGA32U2-AU	ATMEGA32U2-MU
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Core Processor	AVR	AVR	AVR	AVR
Number of I/O	26	26	22	22
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT
Speed	16MHz	16MHz	16MHz	16MHz
Supplier Device Package	44-VQFN (7x7)	44-TQFP (10x10)	32-TQFP (7x7)	32-VQFN (5x5)
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
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Data Converters	A/D 12x10b	A/D 12x10b	-	-
Package	Tray	Tape & Reel (TR)	Tray	Tray
Base Product Number	ATMEGA32	ATMEGA32	ATMEGA32	ATMEGA32
Oscillator Type	Internal	Internal	Internal	Internal
RAM Size	2.5K x 8	2.5K x 8	1K x 8	1K x 8
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Connectivity	I²C, SPI, UART/USART, USB	I²C, SPI, UART/USART, USB	SPI, UART/USART, USB	SPI, UART/USART, USB
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	1K x 8	1K x 8	1K x 8	1K x 8
Package / Case	44-VFQFN Exposed Pad	44-TQFP	32-TQFP	32-VFQFN Exposed Pad
Series	AVR® ATmega	AVR® ATmega	AVR® ATmega	AVR® ATmega

ATMEGA32U4-MU Datasheet PDF

Download ATMEGA32U4-MU pdf datasheets and Microchip Technology documentation for ATMEGA32U4-MU - Microchip Technology.

Datasheets

[ATmega16U4,32U4 Datasheet.pdf](#)

[ATmega16U4,32U4 Summary.pdf](#)

[USB DFU Bootloader Datasheet.pdf](#)

PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

Boxes 07/Dec/2016.pdf

PCN Design/Specification

Marking Chgs 11/Jul/2017.pdf

Copper Bonding Wire 19/Dec/2014.pdf

PCN Other




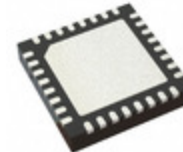




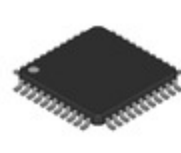
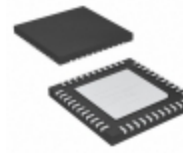
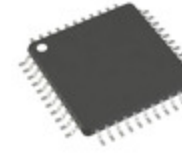


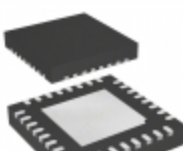
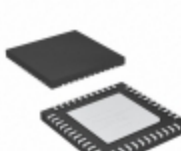

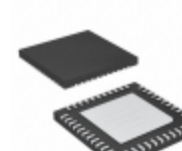

MSL Update 26/Feb/2014.pdf

PCN Assembly/Origin

Fab Site 28/Jan/2021.pdf

Customers Also Interested in

Recommended Products

					
ATMEGA406-1AAU_SL283 Atmel (Microchip Technology)	ATMEGA32U4-AUR Microchip Technology IC MCU 8BIT 32KB FLASH 44TQFP	ATMEGA32U2-AU Microchip Technology IC MCU 8BIT 32KB FLASH 32TQFP	ATMEGA32U2-MU Microchip Technology IC MCU 8BIT 32KB FLASH 32VQFN	ATMEGA32M1-AUR Microchip Technology IC MCU 8BIT 32KB FLASH 32TQFP	ATMEGA32U2 Atmel (Microchip Technology)
					
ATMEGA406-1AAU Atmel IC MCU 8BIT 40KB FLASH 48LQFP	ATMEGA32U2-AUR Microchip Technology IC MCU 8BIT 32KB FLASH 32TQFP	ATMEGA32U4-AU Atmel IC MCU 8BIT 32KB FLASH 44TQFP	ATMEGA32U4RC-MU Microchip Technology IC MCU 8BIT 32KB FLASH 44VQFN	ATMEGA32U4RC-AU Microchip Technology IC MCU 8BIT 32KB FLASH 44TQFP	ATMEGA32U4-AU Microchip Technology IC MCU 8BIT 32KB FLASH 44TQFP
					
ATMEGA406-1AAU Microchip Technology IC MCU 8BIT 40KB FLASH 48LQFP	ATMEGA32M1-15MD Microchip Technology IC MCU 8BIT 32KB FLASH 32QFN	ATMEGA32U4-MUR Microchip Technology IC MCU 8BIT 32KB FLASH 44VQFN	ATMEGA32U4-MUR Atmel IC MCU 8BIT 32KB FLASH 44VQFN	ATMEGA32U4RC-MUR Microchip Technology IC MCU 8BIT 32KB FLASH 44VQFN	ATMEGA32U2-MUR Microchip Technology IC MCU 8BIT 32KB FLASH 32VQFN

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 Alleco 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
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Contact us if you have any questions.

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