



Image may be representation.
See specifications for product details.



ATMEGA644-20MU

Manufacturer Part Number **ATMEGA644-20MU**

Manufacturer **Atmel**

Allelco Part Number **32D-ATMEGA644-20MU**

ECAD Model Request Free CAD Models

Parts Description **IC MCU 8BIT 64KB FLASH 44VQFN**

Package **44-VQFN Exposed Pad**

Data sheet [ATMEGA644-20MU.pdf](#)

RoHs Status **ROHS3 Compliant**

Get a Quote

ATMEGA644-20MU - Atmel.New Original in Stock. Download Linear Technology ATMEGA644-20MU datasheet/specifications on AllelcoElec.com.
Request a quote for ATMEGA644-20MU, please send us email: info@allelco.com

Specifications

ATMEGA644-20MU Tech Specifications

ATMEGA644-20MU - Atmel technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Atmel	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	32
Speed	20MHz	Mounting Type	Surface Mount
Series	AVR® ATmega	EEPROM Size	2K x 8
RAM Size	4K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	64KB (32K x 16)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	I²C, SPI, UART/USART
Package / Case	44-VQFN Exposed Pad	Base Product Number	ATMEGA644
Package	Bulk		

Parts with Similar Specifications

The three parts on the right have similar specifications to Atmel ATMEGA644-20MU

Product Attribute				
Part Number	ATMEGA644-20MU	ATMEGA644-20AU	ATMEGA640-16AUR	ATMEGA644P-20AUR
Manufacturer	Atmel	Microchip Technology	Microchip Technology	Microchip Technology
Speed	20MHz	20MHz	16MHz	20MHz
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
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
Core Processor	AVR	AVR	AVR	AVR
Program Memory Size	64KB (32K x 16)	64KB (32K x 16)	64KB (32K x 16)	64KB (32K x 16)
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
Package	Bulk	Tray	Tape & Reel (TR)	Tape & Reel (TR)
EEPROM Size	2K x 8	2K x 8	4K x 8	2K x 8
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	EBI/EMI, I²C, SPI, UART/USART	I²C, SPI, UART/USART
Series	AVR® ATmega	AVR® ATmega	AVR® ATmega	AVR® ATmega
Oscillator Type	Internal	Internal	Internal	Internal
Base Product Number	ATMEGA644	ATMEGA644	ATMEGA640	ATMEGA644
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Number of I/O	32	32	86	32
RAM Size	4K x 8	4K x 8	8K x 8	4K x 8
Data Converters	A/D 8x10b	A/D 8x10b	A/D 16x10b	A/D 8x10b
Supplier Device Package	44-VQFN (7x7)	44-TQFP (10x10)	100-TQFP (14x14)	44-TQFP (10x10)
Package / Case	44-VQFN Exposed Pad	44-TQFP	100-TQFP	44-TQFP
Core Size	8-Bit	8-Bit	8-Bit	8-Bit

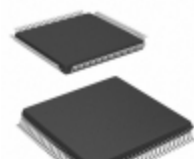
Customers Also Interested in

Recommended Products



ATMEGA644-20AU

Microchip Technology
IC MCU 8BIT 64KB FLASH 44TQFP



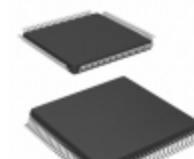
ATMEGA640-16AUR

Microchip Technology
IC MCU 8BIT 64KB FLASH 100TQFP



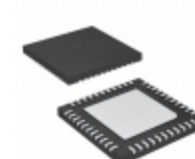
ATMEGA644P-20AUR

Microchip Technology
IC MCU 8BIT 64KB FLASH 44TQFP



ATMEGA640-16AU

Microchip Technology
IC MCU 8BIT 64KB FLASH 100TQFP



ATMEGA644A-MUR

Microchip Technology
IC MCU 8BIT 64KB FLASH 44VQFN



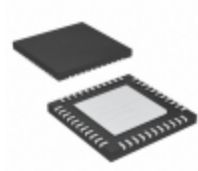
ATMEGA64-16MU

Atmel
IC MCU 8BIT 64KB FLASH 64QFN



ATMEGA644P-20AQ

Microchip Technology
IC MCU 8BIT 64KB FLASH 44TQFP



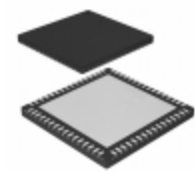
ATMEGA644P-15MT1

Microchip Technology
IC MCU 8BIT 64KB FLASH 44VQFN



ATMEGA644A-AU

Microchip Technology
IC MCU 8BIT 64KB FLASH 44TQFP



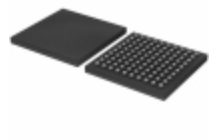
ATMEGA64-16MI

Microchip Technology
IC MCU 8BIT 64KB FLASH 64QFN



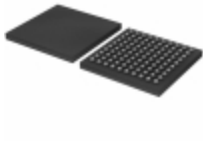
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Atmel
IC MCU 8BIT 64KB FLASH 44TQFP



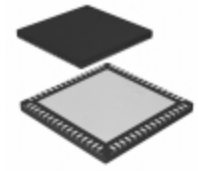
ATMEGA640-16CU

Microchip Technology
IC MCU 8BIT 64KB FLASH 100CBGA



ATMEGA640V-8CU

Microchip Technology
IC MCU 8BIT 64KB FLASH 100CBGA



ATMEGA64-16MU

Microchip Technology
IC MCU 8BIT 64KB FLASH 64QFN



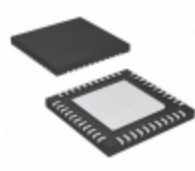
ATMEGA644P-20AU

Microchip Technology
IC MCU 8BIT 64KB FLASH 44TQFP



ATMEGA644-20AUR

Microchip Technology
IC MCU 8BIT 64KB FLASH 44TQFP



ATMEGA644A-MU

Microchip Technology
IC MCU 8BIT 64KB FLASH 44VQFN



ATMEGA644P-15MT1

Atmel
IC MCU 8BIT 64KB 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.



Phone

+00852 9146 4856



Email

info@allelco.com

Certifications & Memberships



View More



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