



Image may be representation.  
See specifications for product details.



## ATMEGA644P-20AU

Manufacturer Part Number **ATMEGA644P-20AU**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-ATMEGA644P-20AU**

ECAD Model PCB Symbol, Footprint & 3D Model

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

Package **44-TQFP**

Data sheet [ATmega164\\_324\\_644P/V Appendix.pdf](#)

[ATmega164\\_324\\_644P/V Datasheet.pdf](#)

[ATmega644P/V Summary.pdf](#)

RoHs Status **ROHS3 Compliant**

**Get a Quote**

ATMEGA644P-20AU - Microchip Technology. New Original in Stock. Download Linear Technology ATMEGA644P-20AU datasheet/specifications on AllelcoElec.com. Request a quote for ATMEGA644P-20AU, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

ATMEGA644P-20AU Tech Specifications

ATMEGA644P-20AU - 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-TQFP (10x10)	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-TQFP	Base Product Number	ATMEGA644
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA644P-20AU

Product Attribute				
Part Number	ATMEGA644P-20AU	ATMEGA644A-MU	ATMEGA644P-A15AZ	ATMEGA644P-20AQ
Manufacturer	Microchip Technology	Microchip Technology	Atmel	Atmel
EEPROM Size	2K x 8	2K x 8	2K x 8	2K x 8
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 105°C (TA)
Number of I/O	32	32	32	32
Core Processor	AVR	AVR	AVR	AVR
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
Series	AVR® ATmega	AVR® ATmega	Automotive, AEC-Q100, AVR® ATmega	AVR® ATmega
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Base Product Number	ATMEGA644	ATMEGA644	ATMEGA644	ATMEGA644
Supplier Device Package	44-TQFP (10x10)	44-VQFN (7x7)	44-TQFP (10x10)	44-TQFP (10x10)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Size	4K x 8	4K x 8	4K x 8	4K x 8
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	1.8V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	44-TQFP	44-VFQFN Exposed Pad	44-TQFP	44-TQFP
Program Memory Size	64KB (32K x 16)	64KB (32K x 16)	64KB (32K x 16)	64KB (32K x 16)
Speed	20MHz	20MHz	16MHz	20MHz
Package	Tray	Tray	Bulk	Bulk

## ATMEGA644P-20AU Datasheet PDF

Download ATMEGA644P-20AU pdf datasheets and Microchip Technology documentation for ATMEGA644P-20AU - Microchip Technology.

### Datasheets

[ATmega164\\_324\\_644P/V Appendix.pdf](#)

### PCN Packaging

2.73KHz.pdf

### PCN Design/Specification

Marking Chgs 11/Jul/2017.pdf

ATMEGA Datasheet 12/Dec/2018.pdf

### HTML Datasheet

ATmega164\_324\_644P/V Datasheet.pdf

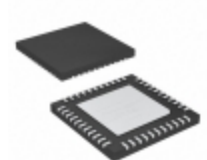
ATmega644P/V Summary.pdf

### PCN Assembly/Origin

2.73KHz.pdf

## Customers Also Interested in

### Recommended Products



#### ATMEGA644A-MU

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44VQFN



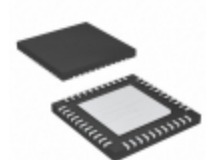
#### ATMEGA644P-A15AZ

Atmel  
IC MCU 8BIT 64KB FLASH 44TQFP



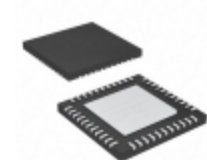
#### ATMEGA644P-20AQ

Atmel  
IC MCU 8BIT 64KB FLASH 44TQFP



#### ATMEGA644P-A15MZ

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44VQFN



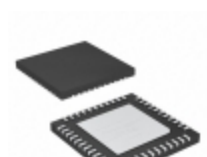
#### ATMEGA644A-MUR

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44VQFN



#### ATMEGA644-20MU

Atmel  
IC MCU 8BIT 64KB FLASH 44VQFN



#### ATMEGA644P-20MU

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44VQFN



#### ATMEGA644P-20AQ

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44TQFP



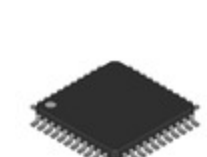
#### ATMEGA644P-20AUR

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44TQFP



#### ATMEGA644A-AU

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44TQFP



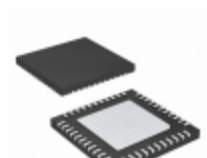
#### ATMEGA644P-20AUR

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IC MCU 8BIT 64KB FLASH 44TQFP



#### ATMEGA644P-A15MZ

Atmel  
IC MCU 8BIT 64KB FLASH 44VQFN



#### ATMEGA644P-15MT1

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44VQFN



#### ATMEGA644P-20MU

Atmel  
IC MCU 8BIT 64KB FLASH 44VQFN



#### ATMEGA644P-A15AZ

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44TQFP



#### ATMEGA644-20AUR

Microchip Technology  
IC MCU 8BIT 64KB FLASH 44TQFP



#### ATMEGA644P-B15MZ

Atmel  
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



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