



Image may be representation.  
See specifications for product details.



## ATMEGA164P-20AUR

Manufacturer Part Number	<b>ATMEGA164P-20AUR</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-ATMEGA164P-20AUR
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 8BIT 16KB FLASH 44TQFP
Package	44-TQFP
Data sheet	<b>ATmega164_324_644P/V Appendix.pdf</b> <b>Cylindrical Battery Holders.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

ATMEGA164P-20AUR - Microchip Technology.New Original in Stock. Download Linear Technology ATMEGA164P-20AUR datasheet/specifications on AllelcoElec.com.  
Request a quote for ATMEGA164P-20AUR, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

ATMEGA164P-20AUR Tech Specifications  
ATMEGA164P-20AUR - 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	512 x 8
RAM Size	1K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	16KB (8K 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	ATMEGA164
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA164P-20AUR

Product Attribute				
Part Number	ATMEGA164P-20AUR	<b>ATMEGA164PA-AUR</b>	<b>ATMEGA164P-20MU</b>	<b>ATMEGA164P-A15AZ</b>
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Atmel
Program Memory Size	16KB (8K x 16)	16KB (8K x 16)	16KB (8K x 16)	16KB (8K x 16)
Core Processor	AVR	AVR	AVR	AVR
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	1.8V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Package / Case	44-TQFP	44-TQFP	44-VFQFN Exposed Pad	44-TQFP
Number of I/O	32	32	32	32
Supplier Device Package	44-TQFP (10x10)	44-TQFP (10x10)	44-VQFN (7x7)	44-TQFP (10x10)
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART
Program Memory Type	FLASH	FLASH	FLASH	FLASH
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	20MHz	20MHz	20MHz	16MHz
Base Product Number	ATMEGA164	ATMEGA164	ATMEGA164	ATMEGA164
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Bulk
EEPROM Size	512 x 8	512 x 8	512 x 8	512 x 8
Oscillator Type	Internal	Internal	Internal	Internal
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Size	1K x 8	1K x 8	1K x 8	1K x 8
Series	AVR® ATmega	AVR® ATmega	AVR® ATmega	Automotive, AEC-Q100, AVR® ATmega
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)

### ATMEGA164P-20AUR Datasheet PDF

Download ATMEGA164P-20AUR pdf datasheets and Microchip Technology documentation for ATMEGA164P-20AUR - Microchip Technology.

#### Datasheets

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

#### PCN Packaging

[Transfer to Microchip/Label/Pkg 5/Sep/2016.pdf](#)

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

## PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf



ATMEGA Datasheet 12/Dec/2018.pdf

## PCN Other



2.73KHz.pdf

## HTML Datasheet



Cylindrical Battery Holders.pdf

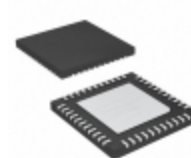
## Customers Also Interested in

### Recommended Products



#### ATMEGA164PA-AUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



#### ATMEGA164P-20MU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44VQFN



#### ATMEGA164P-A15AZ

Atmel  
IC MCU 8BIT 16KB FLASH 44TQFP



#### ATMEGA164P-20AQ

Atmel  
IC MCU 8BIT 16KB FLASH 44TQFP



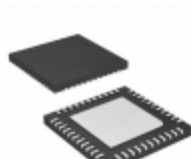
#### ATMEGA164A-AUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



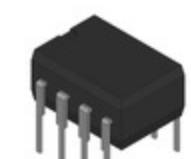
#### ATMEGA164A-PU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 40DIP



#### ATMEGA164P-A15MZ

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44VQFN



#### ATMEGA164A-PU

Atmel  
IC MCU 8BIT 16KB FLASH 40DIP



#### ATMEGA164P-20AU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



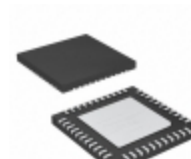
#### ATMEGA163L-4AI

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



#### ATMEGA164P-B15AZ

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



#### ATMEGA164P-B15MZ

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44VQFN



#### ATMEGA164PA-AU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



#### ATMEGA164P-A15AZ

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



#### ATMEGA164A-AU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



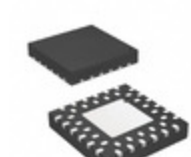
#### ATMEGA164P-20AQ

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



#### ATMEGA164A-MCH

Atmel  
IC MCU 8BIT 16KB FLASH 44QFN



#### ATMEGA164A-MCH

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44QFN

## 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

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Email

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## Certifications & Memberships



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