


# ATMEGA88-20AUR

Manufacturer Part Number	<b>ATMEGA88-20AUR</b>
Manufacturer	<b>Atmel</b>
Allelco Part Number	32D-ATMEGA88-20AUR
ECAD Model	 Request Free CAD Models
Parts Description	IC MCU 8BIT 8KB FLASH 32TQFP
Package	32-TQFP
Data sheet	ATMEGA88-20AUR.pdf


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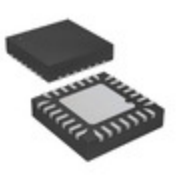
## Specifications

ATMEGA88-20AUR Tech Specifications  
 ATMEGA88-20AUR - 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	32-TQFP (7x7)	Number of I/O	23
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	8KB (4K x 16)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, SPI, UART/USART
Package / Case	32-TQFP	Base Product Number	ATMEGA88
Package	Bulk		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Atmel ATMEGA88-20AUR

Product Attribute	 NO PICTURE			
Part Number	ATMEGA88-20AUR	<a href="#">ATMEGA88-15AZ</a>	<a href="#">ATMEGA88-15MT</a>	<a href="#">ATMEGA88A-MMH</a>
Manufacturer	Atmel	Microchip Technology	Microchip Technology	Microchip Technology
Speed	20MHz	16MHz	16MHz	20MHz
Number of I/O	23	23	23	23
Oscillator Type	Internal	Internal	Internal	Internal
Supplier Device Package	32-TQFP (7x7)	32-TQFP (7x7)	32-QFN (5x5)	28-VQFN (4x4)
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Base Product Number	ATMEGA88	ATMEGA88	ATMEGA88	ATMEGA88
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	512 x 8	512 x 8	512 x 8	512 x 8
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
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	AVR	AVR	AVR	AVR
Package	Bulk	Tape & Reel (TR)	Tape & Reel (TR)	Tray
RAM Size	1K x 8	1K x 8	1K x 8	1K x 8
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	1.8V ~ 5.5V
Program Memory Size	8KB (4K x 16)	8KB (4K x 16)	8KB (4K x 16)	8KB (4K x 16)
Package / Case	32-TQFP	32-TQFP	32-VFQFN Exposed Pad	28-VFQFN Exposed Pad
Series	AVR® ATmega	Automotive, AEC-Q100, AVR® ATmega	Automotive, AEC-Q100, AVR® ATmega	AVR® ATmega
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Connectivity	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)

## Customers Also Interested in

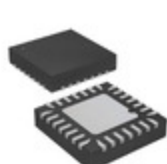
### Recommended Products



**ATMEGA88-15AZ**  
 Microchip Technology  
 IC MCU 8BIT 8KB FLASH 32TQFP



**ATMEGA88-15MT**  
 Microchip Technology  
 IC MCU 8BIT 8KB FLASH 32QFN



**ATMEGA88A-MMH**  
 Microchip Technology  
 IC MCU 8BIT 8KB FLASH 28VQFN



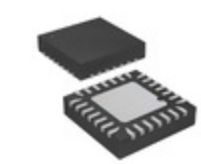
**ATMEGA88-15MT1**  
 Microchip Technology  
 IC MCU 8BIT 8KB FLASH 32QFN



**ATMEGA88-20AI**  
 Microchip Technology  
 IC MCU 8BIT 8KB FLASH 32TQFP



**ATMEGA88-20MU**  
 Microchip Technology  
 IC MCU 8BIT 8KB FLASH 32VQFN

**ATMEGA88-20AU**Atmel  
IC MCU 8BIT 8KB FLASH 32TQFP**ATMEGA88-20PI**Microchip Technology  
IC MCU 8BIT 8KB FLASH 28DIP**ATMEGA88A-MU**Microchip Technology  
IC MCU 8BIT 8KB FLASH 32VQFN**ATMEGA88-20MUR**Microchip Technology  
IC MCU 8BIT 8KB FLASH 32VQFN**ATMEGA88-20AU**Microchip Technology  
IC MCU 8BIT 8KB FLASH 32TQFP**ATMEGA88-20PU**Microchip Technology  
IC MCU 8BIT 8KB FLASH 28DIP**ATMEGA88-15MZ**Microchip Technology  
IC MCU 8BIT 8KB FLASH 32QFN**ATMEGA88A-AU**Microchip Technology  
IC MCU 8BIT 8KB FLASH 32TQFP**ATMEGA88-15MZ**Atmel  
IC MCU 8BIT 8KB FLASH 32QFN**ATMEGA88-20AUR**Microchip Technology  
IC MCU 8BIT 8KB FLASH 32TQFP**ATMEGA88A-MMHR**Microchip Technology  
IC MCU 8BIT 8KB FLASH 28VQFN**ATMEGA88-15MT**Atmel  
IC MCU 8BIT 8KB FLASH 32QFN

## 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

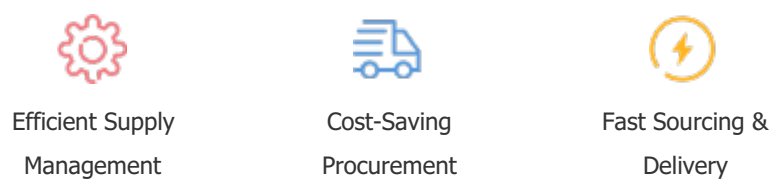
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

## Payment Support

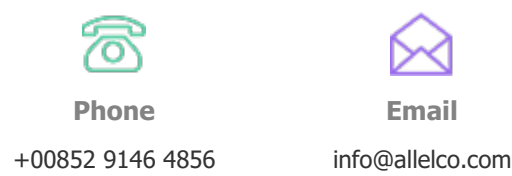
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,  
PayPal.



## Your Faithful Supply Chain Partner -



Contact us if you have any questions.



## Certifications & Memberships



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