

Image may be representation.  
See specifications for product details.



## ATMEGA8-16PU

Manufacturer Part Number	<b>ATMEGA8-16PU</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-ATMEGA8-16PU
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 8BIT 8KB FLASH 28DIP
Package	28-DIP (0.300", 7.62mm)
Data sheet	<b>ATmega8(L) Complete.pdf</b> <b>ATMEGA8/L Summary.pdf</b>
RoHs Status	ROHS3 Compliant

**Get a Quote**

ATMEGA8-16PU - Microchip Technology. New Original in Stock. Download Linear Technology ATMEGA8-16PU datasheet/specifications on AllelcoElec.com. Request a quote for ATMEGA8-16PU, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

ATMEGA8-16PU Tech Specifications

ATMEGA8-16PU - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	28-PDIP	Number of I/O	23
Speed	16MHz	Mounting Type	Through Hole
Series	AVR® ATmega	EEPROM Size	512 x 8
RAM Size	1K x 8	Data Converters	A/D 6x10b
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	28-DIP (0.300", 7.62mm)	Base Product Number	ATMEGA8
Package	Tube		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA8-16PU

Product Attribute				
Part Number	ATMEGA8-16PU	ATMEGA809-MF	ATMEGA808-MUR	ATMEGA8515-16AUR
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Atmel
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, WDT	Brown-out Detect/Reset, POR, PWM, WDT
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
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	EBI/EMI, SPI, UART/USART
Core Processor	AVR	AVR	AVR	AVR
EEPROM Size	512 x 8	256 x 8	256 x 8	512 x 8
Mounting Type	Through Hole	Surface Mount	Surface Mount	Surface Mount
Package / Case	28-DIP (0.300", 7.62mm)	48-VFQFN Exposed Pad	32-VFQFN Exposed Pad	44-TQFP
Program Memory Size	8KB (4K x 16)	8KB (8K x 8)	8KB (8K x 8)	8KB (4K x 16)
Package	Tube	Tray	Tape & Reel (TR)	Bulk
Base Product Number	ATMEGA8	ATMEGA809	ATMEGA808	ATMEGA8515
Series	AVR® ATmega	megaAVR® 0, Functional Safety (FuSa)	megaAVR® 0, Functional Safety (FuSa)	AVR® ATmega
Oscillator Type	Internal	Internal	Internal	Internal
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Supplier Device Package	28-PDIP	48-VQFN (6x6)	32-VQFN (5x5)	44-TQFP (10x10)
RAM Size	1K x 8	1K x 8	1K x 8	512 x 8
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 6x10b	A/D 16x10b	A/D 12x10b	-
Number of I/O	23	41	27	35
Speed	16MHz	20MHz	20MHz	16MHz
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V	1.8V ~ 5.5V	1.8V ~ 5.5V	4.5V ~ 5.5V

### ATMEGA8-16PU Datasheet PDF

Download ATMEGA8-16PU pdf datasheets and Microchip Technology documentation for ATMEGA8-16PU - Microchip Technology.

#### Datasheets

[ATmega8\(L\) Complete.pdf](#)

[ATMEGA8/L Summary.pdf](#)

#### PCN Packaging

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

## PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf



Copper Bonding Wire 23/Jul/2014.pdf

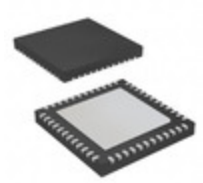
## PCN Assembly/Origin



2.73KHz.pdf

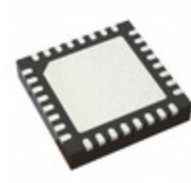
## Customers Also Interested in

### Recommended Products



#### ATMEGA809-MF

Microchip Technology  
IC MCU 8BIT 8KB FLASH 48VQFN



#### ATMEGA808-MUR

Microchip Technology  
IC MCU 8BIT 8KB FLASH 32VQFN



#### ATMEGA8515-16AUR

Atmel  
IC MCU 8BIT 8KB FLASH 44TQFP



#### ATMEGA8-16AU

Atmel  
IC MCU 8BIT 8KB FLASH 32TQFP



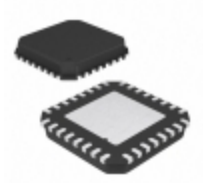
#### ATMEGA8-16AUR

Atmel  
IC MCU 8BIT 8KB FLASH 32TQFP



#### ATMEGA8-16AI

Atmel  
IC MCU 8BIT 8KB FLASH 32TQFP



#### ATMEGA8-16MUR

Microchip Technology  
IC MCU 8BIT 8KB FLASH 32VQFN



#### ATMEGA8-16PI

Atmel  
IC MCU 8BIT 8KB FLASH 28DIP



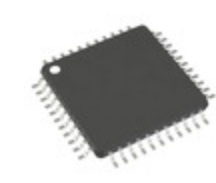
#### ATMEGA808-AU

Microchip Technology  
IC MCU 8BIT 8KB FLASH 32TQFP



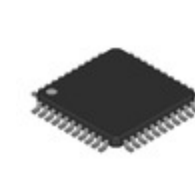
#### ATMEGA8-16PI

Microchip Technology  
IC MCU 8BIT 8KB FLASH 28DIP



#### ATMEGA8515-16AU

Microchip Technology  
IC MCU 8BIT 8KB FLASH 44TQFP



#### ATMEGA8515-16AU

Atmel  
IC MCU 8BIT 8KB FLASH 44TQFP



#### ATMEGA8515-16AI

Microchip Technology  
IC MCU 8BIT 8KB FLASH 44TQFP



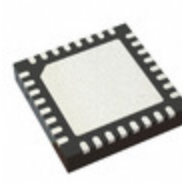
#### ATMEGA8-16AU

Microchip Technology  
IC MCU 8BIT 8KB FLASH 32TQFP



#### ATMEGA808-AUR

Microchip Technology  
IC MCU 8BIT 8KB FLASH 32TQFP



#### ATMEGA8-16MU

Microchip Technology  
IC MCU 8BIT 8KB FLASH 32VQFN



#### ATMEGA808-XUR

Microchip Technology  
IC MCU 8BIT 8KB FLASH 28SSOP



#### ATMEGA8-16AUR

Microchip Technology  
IC MCU 8BIT 8KB FLASH 32TQFP

## 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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