

Image may be representation.  
See specifications for product details.



## ATMEGA16-16AU

Manufacturer Part Number	<b>ATMEGA16-16AU</b>
Manufacturer	<b>Atmel</b>
Allelco Part Number	32D-ATMEGA16-16AU
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 8BIT 16KB FLASH 44TQFP
Package	44-TQFP
Data sheet	ATMEGA16-16AU.pdf

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ATMEGA16-16AU - Atmel.New Original in Stock. Download Linear Technology ATMEGA16-16AU datasheet/specifications on AllelcoElec.com.  
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### Specifications

ATMEGA16-16AU Tech Specifications  
ATMEGA16-16AU - Atmel technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Atmel	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	44-TQFP (10x10)	Number of I/O	32
Speed	16MHz	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	I <sup>2</sup> C, SPI, UART/USART
Package / Case	44-TQFP	Base Product Number	ATMEGA16
Package	Bulk		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Atmel ATMEGA16-16AU

Product Attribute				
Part Number	ATMEGA16-16AU	<b>ATMEGA128L-8MU</b>	<b>ATMEGA16-16AU</b>	<b>ATMEGA16-16MU</b>
Manufacturer	Atmel	Atmel	Microchip Technology	Atmel
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Program Memory Size	16KB (8K x 16)	128KB (64K x 16)	16KB (8K x 16)	16KB (8K x 16)
Package	Bulk	Bulk	Tray	Bulk
Base Product Number	ATMEGA16	ATMEGA128	ATMEGA16	ATMEGA16
Package / Case	44-TQFP	64-VFQFN Exposed Pad	44-TQFP	44-VFQFN Exposed Pad
Core Processor	AVR	AVR	AVR	AVR
Number of I/O	32	53	32	32
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
Oscillator Type	Internal	Internal	Internal	Internal
Supplier Device Package	44-TQFP (10x10)	64-QFN (9x9)	44-TQFP (10x10)	44-VQFN (7x7)
RAM Size	1K x 8	4K x 8	1K x 8	1K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	16MHz	8MHz	16MHz	16MHz
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Connectivity	I <sup>2</sup> C, SPI, UART/USART	EBI/EMI, I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V	2.7V ~ 5.5V	4.5V ~ 5.5V	4.5V ~ 5.5V
EEPROM Size	512 x 8	4K x 8	512 x 8	512 x 8
Series	AVR® ATmega	AVR® ATmega	AVR® ATmega	AVR® ATmega

### Customers Also Interested in

#### Recommended Products



**ATMEGA128L-8MU**

Atmel  
IC MCU 8BIT 128KB FLASH 64QFN



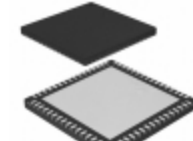
**ATMEGA16-16AU**

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



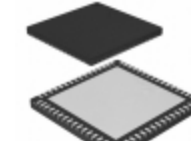
**ATMEGA16-16MU**

Atmel  
IC MCU 8BIT 16KB FLASH 44VQFN



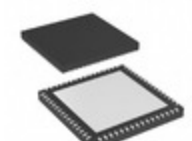
**ATMEGA128RFA1-ZU**

Microchip Technology  
IC RF TXRX+MCU 802.15.4 64VFQFN



**ATMEGA128L-8MU**

Microchip Technology  
IC MCU 8BIT 128KB FLASH 64QFN



**ATMEGA128RFA1-ZF**

Microchip Technology  
IC RF TXRX+MCU 802.15.4 64VFQFN



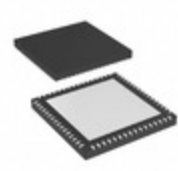
### ATMEGA16-16AUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



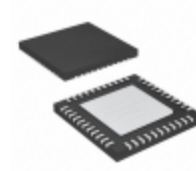
### ATMEGA16-16MQ

Atmel  
IC MCU 8BIT 16KB FLASH 44VQFN



### ATMEGA128RFR2-ZU

Microchip Technology  
IC RF TXRX+MCU 802.15.4 64VQFN



### ATMEGA16-16MU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44VQFN



### ATMEGA16-16AUR

Atmel  
IC MCU 8BIT 16KB FLASH 44TQFP



### ATMEGA16-16AI

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44TQFP



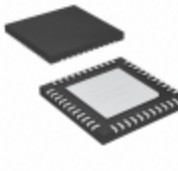
### ATMEGA16-16PU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 40DIP



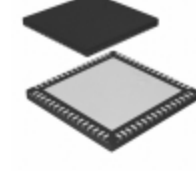
### ATMEGA128L8AU

Atmel (Microchip Technology)



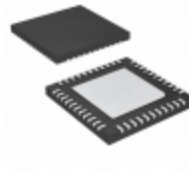
### ATMEGA16-16MQ

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44VQFN



### ATMEGA128L-8MI

Microchip Technology  
IC MCU 8BIT 128KB FLASH 64QFN



### ATMEGA16-16MC

Microchip Technology  
IC MCU 8BIT 16KB FLASH 44VQFN



### ATMEGA16-16PI

Microchip Technology  
IC MCU 8BIT 16KB FLASH 40DIP

## 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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## Contact us

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