

Image may be representation.  
See specifications for product details.



## ATMEGA168PB-AU

Manufacturer Part Number	<b>ATMEGA168PB-AU</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-ATMEGA168PB-AU
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 8BIT 16KB FLASH 32TQFP
Package	32-TQFP
Data sheet	<b>ATmega48/88/168PB Datasheet.pdf</b> <b>Cylindrical Battery Holders.pdf</b>
RoHS Status	<b>ROHS3 Compliant</b>

**Get a Quote**

ATMEGA168PB-AU - Microchip Technology.New Original in Stock. Download Linear Technology ATMEGA168PB-AU datasheet/specifications on AllelcoElec.com.  
Request a quote for ATMEGA168PB-AU, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

ATMEGA168PB-AU Tech Specifications  
ATMEGA168PB-AU - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.8V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	32-TQFP (7x7)	Number of I/O	27
Speed	20MHz	Mounting Type	Surface Mount
Series	AVR® ATmega, Functional Safety (FuSa)	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	32-TQFP	Base Product Number	ATMEGA168
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA168PB-AU

Product Attribute				
Part Number	ATMEGA168PB-AU	ATMEGA168PA-MUR	ATMEGA168PB-MU	ATMEGA169-16AI
Manufacturer	Microchip Technology	Atmel	Microchip Technology	Microchip Technology
Package	Tray	Bulk	Tray	Tray
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART	SPI, UART/USART, USI
Core Processor	AVR	AVR	AVR	AVR
Program Memory Size	16KB (8K x 16)	16KB (8K x 16)	16KB (8K x 16)	16KB (8K x 16)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
EEPROM Size	512 x 8	512 x 8	512 x 8	512 x 8
Voltage - Supply (Vcc/Vdd)	1.8V ~ 5.5V	1.8V ~ 5.5V	1.8V ~ 5.5V	2.7V ~ 5.5V
Number of I/O	27	23	27	54
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Series	AVR® ATmega, Functional Safety (FuSa)	AVR® ATmega	AVR® ATmega, Functional Safety (FuSa)	AVR® ATmega
Supplier Device Package	32-TQFP (7x7)	32-VQFN (5x5)	32-VFQFN (5x5)	64-TQFP (14x14)
Speed	20MHz	20MHz	20MHz	16MHz
RAM Size	1K x 8	1K x 8	1K x 8	1K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Base Product Number	ATMEGA168	ATMEGA168	ATMEGA168	ATMEGA169
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, LCD, POR, PWM, WDT
Package / Case	32-TQFP	32-VFQFN Exposed Pad	32-VFQFN Exposed Pad	64-TQFP

### ATMEGA168PB-AU Datasheet PDF

Download ATMEGA168PB-AU pdf datasheets and Microchip Technology documentation for ATMEGA168PB-AU - Microchip Technology.

#### Datasheets

[ATmega48/88/168PB Datasheet.pdf](#)

#### PCN Packaging

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

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

## PCN Assembly/Origin

 2.73KHz.pdf

## HTML Datasheet

 Cylindrical Battery Holders.pdf

## PCN Design/Specification

 ATmega48PB/88PB/168PB 20/Oct/2021.pdf

 ATmega48PB/88PB/168PB 25/Aug/2017.pdf

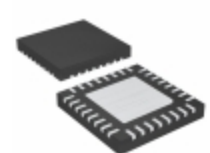
## Customers Also Interested in

### Recommended Products



#### ATMEGA168PA-MUR

Atmel  
IC MCU 8BIT 16KB FLASH 32VQFN



#### ATMEGA168PB-MU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32VQFN



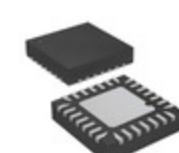
#### ATMEGA169-16AI

Microchip Technology  
IC MCU 8BIT 16KB FLASH 64TQFP



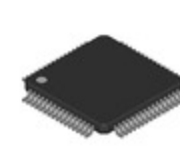
#### ATMEGA168V-10MU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32VQFN



#### ATMEGA168PA-MMH

Microchip Technology  
IC MCU 8BIT 16KB FLASH 28VQFN



#### ATMEGA169-16AU

Atmel  
IC MCU 8BIT 16KB FLASH 64TQFP



#### ATMEGA168PB-MN

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32VQFN



#### ATMEGA168PA-AUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32TQFP



#### ATMEGA168PA-MU

Atmel  
IC MCU 8BIT 16KB FLASH 32VQFN



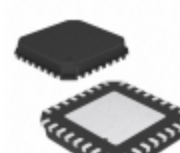
#### ATMEGA168PB-AUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32TQFP



#### ATMEGA168PV-10MU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32VQFN



#### ATMEGA168V-10MI

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32VQFN



#### ATMEGA168PA-MUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32VQFN



#### ATMEGA168PB-MUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32VQFN



#### ATMEGA168PA-AU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32TQFP



#### ATMEGA168PA-AU

Atmel  
IC MCU 8BIT 16KB FLASH 32TQFP



#### ATMEGA168PB-AN

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32TQFP



#### ATMEGA168PA-MU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32VQFN

## 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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## Certifications & Memberships



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