



Image may be representation.  
See specifications for product details.



## ATMEGA324PB-AU

Manufacturer Part Number	<b>ATMEGA324PB-AU</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-ATMEGA324PB-AU
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 8BIT 32KB FLASH 44TQFP
Package	44-TQFP
Data sheet	<a href="#">ATmega324PB Datasheet.pdf</a> <a href="#">ATmega324PB Summary.pdf</a>
RoHs Status	ROHS3 Compliant

**Get a Quote**

ATMEGA324PB-AU - Microchip Technology. New Original in Stock. Download Linear Technology ATMEGA324PB-AU datasheet/specifications on AllelcoElec.com. Request a quote for ATMEGA324PB-AU, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

ATMEGA324PB-AU Tech Specifications  
ATMEGA324PB-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	44-TQFP (10x10)	Number of I/O	39
Speed	20MHz	Mounting Type	Surface Mount
Series	AVR® ATmega, Functional Safety (FuSa)	EEPROM Size	1K x 8
RAM Size	2K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	32KB (16K 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	ATMEGA324
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA324PB-AU

Product Attribute				
Part Number	ATMEGA324PB-AU	ATMEGA3250-16AU	ATMEGA324PA-AU	ATMEGA325-16AU
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
RAM Size	2K x 8	2K x 8	2K x 8	2K x 8
Number of I/O	39	69	32	54
Supplier Device Package	44-TQFP (10x10)	100-TQFP (14x14)	44-TQFP (10x10)	64-TQFP (14x14)
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Package / Case	44-TQFP	100-TQFP	44-TQFP	64-TQFP
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
Series	AVR® ATmega, Functional Safety (FuSa)	AVR® ATmega	AVR® ATmega	AVR® ATmega
Voltage - Supply (Vcc/Vdd)	1.8V ~ 5.5V	2.7V ~ 5.5V	1.8V ~ 5.5V	2.7V ~ 5.5V
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Base Product Number	ATMEGA324	ATMEGA3250	ATMEGA324	ATMEGA325
Program Memory Size	32KB (16K x 16)	32KB (16K x 16)	32KB (16K x 16)	32KB (16K x 16)
Package	Tray	Tray	Tray	Tray
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	I²C, SPI, UART/USART	SPI, UART/USART, USI	I²C, SPI, UART/USART	SPI, UART/USART, USI
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	20MHz	16MHz	20MHz	16MHz
EEPROM Size	1K x 8	1K x 8	1K x 8	1K x 8
Core Processor	AVR	AVR	AVR	AVR

### ATMEGA324PB-AU Datasheet PDF

Download ATMEGA324PB-AU pdf datasheets and Microchip Technology documentation for ATMEGA324PB-AU - Microchip Technology.

#### Datasheets

- ATmega324PB Datasheet.pdf
- ATmega324PB Summary.pdf

#### PCN Packaging

- MBB/Label Chgs 16/Nov/2018.pdf
- Boxes 07/Dec/2016.pdf

## PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf



ATmega324P/V 05/Apr/2018.pdf

## PCN Assembly/Origin



ATMEGA324PBxxx/PIC16F1527xxx  
28/Oct/2022.pdf

## Customers Also Interested in

### Recommended Products



#### ATMEGA3250-16AU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 100TQFP



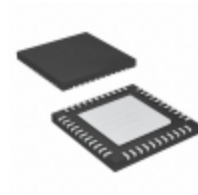
#### ATMEGA324PA-AU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44TQFP



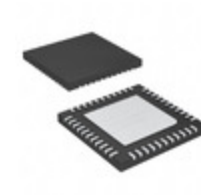
#### ATMEGA325-16AU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 64TQFP



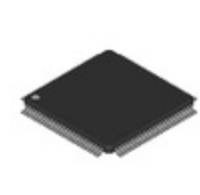
#### ATMEGA324PB-MU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44VQFN



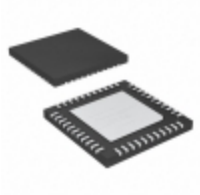
#### ATMEGA324PA-MCH

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44QFN



#### ATMEGA3250-16AU

Atmel  
IC MCU 8BIT 32KB FLASH 100TQFP



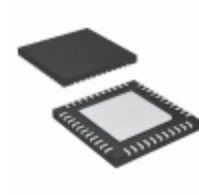
#### ATMEGA324PA-MU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44VQFN



#### ATMEGA324PA-MU

Atmel  
IC MCU 8BIT 32KB FLASH 44VQFN



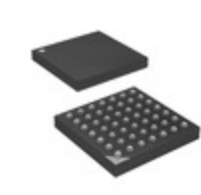
#### ATMEGA324PV-10MU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44VQFN



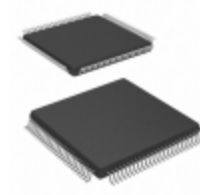
#### ATMEGA324PA-AUR

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44TQFP



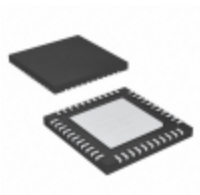
#### ATMEGA324PA-CU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 49VFBGA



#### ATMEGA3250P-20AU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 100TQFP



#### ATMEGA324PA-MUR

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44VQFN



#### ATMEGA324PV-10MU

Atmel  
IC MCU 8BIT 32KB FLASH 44VQFN



#### ATMEGA324PV-10AU

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44TQFP



#### ATMEGA324PB-AN

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44TQFP



#### ATMEGA324PV-10AUR

Microchip Technology  
IC MCU 8BIT 32KB FLASH 44TQFP



#### ATMEGA324PA-B15AZ

Atmel (Microchip Technology)

## 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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