

Image may be representation.  
See specifications for product details.



## AT90PWM3-16MQ

Manufacturer Part Number	<b>AT90PWM3-16MQ</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-AT90PWM3-16MQ
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 8BIT 8KB FLASH 32QFN
Package	32-VQFN Exposed Pad
Data sheet	<b>AT90PWM(2,3)(B) Summary.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

AT90PWM3-16MQ - Microchip Technology. New Original in Stock. Download Linear Technology AT90PWM3-16MQ datasheet/specifications on AllelcoElec.com. Request a quote for AT90PWM3-16MQ, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

AT90PWM3-16MQ Tech Specifications  
AT90PWM3-16MQ - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	32-QFN (7x7)	Number of I/O	27
Speed	16MHz	Mounting Type	Surface Mount
Series	AVR@ 90PWM Lighting	EEPROM Size	512 x 8
RAM Size	512 x 8	Data Converters	A/D 11x10b; D/A 1x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	8KB (8K x 8)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	SPI, UART/USART
Package / Case	32-VQFN Exposed Pad	Base Product Number	AT90PWM3
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology AT90PWM3-16MQ

Product Attribute				
Part Number	AT90PWM3-16MQ	AT90PWM316-16SU	AT90PWM161-16MNR	AT90PWM3-16SQ
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Package	Tape & Reel (TR)	Tube	Tape & Reel (TR)	Tube
Package / Case	32-VQFN Exposed Pad	32-SOIC (0.295", 7.50mm Width)	32-VFQFN Exposed Pad	32-SOIC (0.295", 7.50mm Width)
RAM Size	512 x 8	1K x 8	1K x 8	512 x 8
Series	AVR@ 90PWM Lighting	AVR@ 90PWM Lighting	AVR@ 90PWM Lighting	AVR@ 90PWM Lighting
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
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Base Product Number	AT90PWM3	AT90PWM316	AT90PWM161	AT90PWM3
Core Processor	AVR	AVR	AVR	AVR
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Supplier Device Package	32-QFN (7x7)	32-SOIC	32-QFN (5x5)	32-SOIC
Program Memory Size	8KB (8K x 8)	16KB (16K x 8)	16KB (16K x 8)	8KB (8K x 8)
Oscillator Type	Internal	Internal	Internal	Internal
EEPROM Size	512 x 8	512 x 8	512 x 8	512 x 8
Data Converters	A/D 11x10b; D/A 1x10b	A/D 11x10b; D/A 1x10b	A/D 11x10b; D/A 1x10b	A/D 11x10b; D/A 1x10b
Connectivity	SPI, UART/USART	SPI, UART/USART	SPI	SPI, UART/USART
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Speed	16MHz	16MHz	16MHz	16MHz
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Number of I/O	27	27	20	27

### AT90PWM3-16MQ Datasheet PDF

Download AT90PWM3-16MQ pdf datasheets and Microchip Technology documentation for AT90PWM3-16MQ - Microchip Technology.

#### Datasheets

AT90PWM(2,3)(B) Summary.pdf

#### PCN Packaging

Transfer to Microchip/Label/Pkg 5/Sep/2016.pdf

Tape and Reel Label Update 10/Feb/2015.pdf

## PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf

## PCN Assembly/Origin



Implement Edge Protection Technology 27/Aug/2021.pdf

## Customers Also Interested in

### Recommended Products



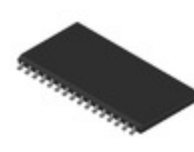
**AT90PWM316-16SU**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 32SOIC



**AT90PWM161-16MNR**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



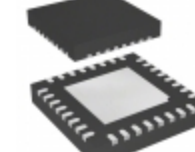
**AT90PWM3-16SQ**  
Microchip Technology  
IC MCU 8BIT 8KB FLASH 32SOIC



**AT90PWM3-16SQ**  
Atmel  
IC MCU 8BIT 8KB FLASH 32SOIC



**AT90PWM216-16SUR**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 24SOIC



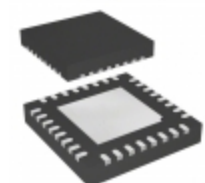
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Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



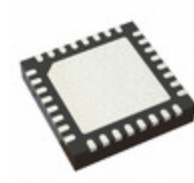
**AT90PWM161-16SN**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 20SOIC



**AT90PWM3-16MQ**  
Atmel  
IC MCU 8BIT 8KB FLASH 32QFN



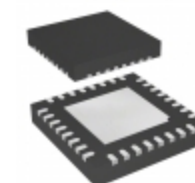
**AT90PWM316EAR-16MUR**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



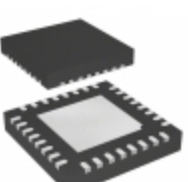
**AT90PWM1610S-16MNR**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



**AT90PWM216-16SU**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 24SOIC



**AT90PWM3B-16MU**  
Microchip Technology  
IC MCU 8BIT 8KB FLASH 32QFN



**AT90PWM316-16MU**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



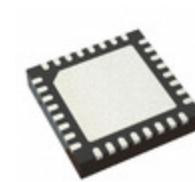
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Microchip Technology  
IC MCU 8BIT 16KB FLASH 32SOIC



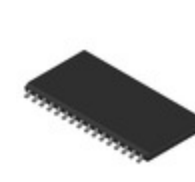
**AT90PWM2B-16SU**  
Microchip Technology  
IC MCU 8BIT 8KB FLASH 24SOIC



**AT90PWM2-16SQ**  
Microchip Technology  
IC MCU 8BIT 8KB FLASH 24SOIC



**AT90PWM161-16MN**  
Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



**AT90PWM316-16SUR**  
Atmel  
IC MCU 8BIT 16KB FLASH 32SOIC

## 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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