

Image may be representation.  
See specifications for product details.



## AT90PWM216-16SU

Manufacturer Part Number	<b>AT90PWM216-16SU</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-AT90PWM216-16SU
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 8BIT 16KB FLASH 24SOIC
Package	24-SOIC (0.295", 7.50mm Width)
Data sheet	<b>AT90PWM216,316 Summary.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

AT90PWM216-16SU - Microchip Technology. New Original in Stock. Download Linear Technology AT90PWM216-16SU datasheet/specifications on AllelcoElec.com. Request a quote for AT90PWM216-16SU, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

AT90PWM216-16SU Tech Specifications  
AT90PWM216-16SU - 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	24-SOIC	Number of I/O	19
Speed	16MHz	Mounting Type	Surface Mount
Series	AVR@ 90PWM Lighting	EEPROM Size	512 x 8
RAM Size	1K x 8	Data Converters	A/D 8x10b; D/A 1x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	16KB (16K x 8)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	SPI, UART/USART
Package / Case	24-SOIC (0.295", 7.50mm Width)	Base Product Number	AT90PWM216
Package	Tube		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology AT90PWM216-16SU

Product Attribute				
Part Number	AT90PWM216-16SU	AT90PWM3-16SQ	AT90PWM1-16SU	AT90PWM316-16SUR
Manufacturer	Microchip Technology	Atmel	Atmel	Microchip Technology
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
Package	Tube	Tube	Bulk	Tape & Reel (TR)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 8x10b; D/A 1x10b	A/D 11x10b; D/A 1x10b	A/D 8x10b	A/D 11x10b; D/A 1x10b
EEPROM Size	512 x 8	512 x 8	512 x 8	512 x 8
Series	AVR@ 90PWM Lighting	AVR@ 90PWM Lighting	AVR@ 90PWM Lighting	AVR@ 90PWM Lighting
Speed	16MHz	16MHz	16MHz	16MHz
Program Memory Size	16KB (16K x 8)	8KB (8K x 8)	8KB (8K x 8)	16KB (16K x 8)
Supplier Device Package	24-SOIC	32-SOIC	24-SOIC	32-SOIC
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
RAM Size	1K x 8	512 x 8	512 x 8	1K x 8
Package / Case	24-SOIC (0.295", 7.50mm Width)	32-SOIC (0.295", 7.50mm Width)	24-SOIC (0.295", 7.50mm Width)	32-SOIC (0.295", 7.50mm Width)
Oscillator Type	Internal	Internal	Internal	Internal
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Connectivity	SPI, UART/USART	SPI, UART/USART	SPI	SPI, UART/USART
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Core Processor	AVR	AVR	AVR	AVR
Base Product Number	AT90PWM216	AT90PWM3	AT90PWM1	AT90PWM316
Number of I/O	19	27	19	27

### AT90PWM216-16SU Datasheet PDF

Download AT90PWM216-16SU pdf datasheets and Microchip Technology documentation for AT90PWM216-16SU - Microchip Technology.

#### Datasheets

[AT90PWM216,316 Summary.pdf](#)

#### PCN Packaging

[MBB/Label Chgs 16/Nov/2018.pdf](#)

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

## PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf



Added Copper Bonding Wire 11/Sep/2014.pdf

## PCN Assembly/Origin



AT90PWM 20/Aug/2019.pdf

## Customers Also Interested in

### Recommended Products



#### AT90PWM3-16SQ

Atmel  
IC MCU 8BIT 8KB FLASH 32SOIC



#### AT90PWM1-16SU

Atmel  
IC MCU 8BIT 8KB FLASH 24SOIC



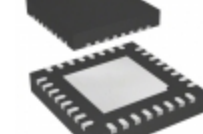
#### AT90PWM316-16SUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32SOIC



#### AT90PWM1610S-16MNR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



#### AT90PWM316-16MUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



#### AT90PWM161-16MN

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



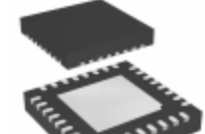
#### AT90LS8535-4PI

Microchip Technology  
IC MCU 8BIT 8KB FLASH 40DIP



#### AT90PWM161-16MNR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



#### AT90PWM316-16MU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32QFN



#### AT90PWM2-16SQ

Microchip Technology  
IC MCU 8BIT 8KB FLASH 24SOIC



#### AT90PWM216-16SUR

Microchip Technology  
IC MCU 8BIT 16KB FLASH 24SOIC



#### AT90PWM161-16SN

Microchip Technology  
IC MCU 8BIT 16KB FLASH 20SOIC



#### AT90PWM1-16SU

Microchip Technology  
IC MCU 8BIT 8KB FLASH 24SOIC



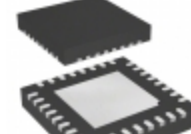
#### AT90PWM316-16SU

Microchip Technology  
IC MCU 8BIT 16KB FLASH 32SOIC



#### AT90PWM3-16MQ

Atmel  
IC MCU 8BIT 8KB FLASH 32QFN



#### AT90PWM3-16MQ

Microchip Technology  
IC MCU 8BIT 8KB FLASH 32QFN



#### AT90PWM2B-16SU

Microchip Technology  
IC MCU 8BIT 8KB FLASH 24SOIC



#### AT90PWM3-16SQ

Microchip Technology  
IC MCU 8BIT 8KB 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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## Certifications & Memberships



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