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See specifications for product details.



ATMEGA48-15AZ

Manufacturer Part Number	ATMEGA48-15AZ
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATMEGA48-15AZ
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 8BIT 4KB FLASH 32TQFP
Package	32-TQFP
Data sheet	ATMEGA48/88/168 Auto Datasheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATMEGA48-15AZ - Microchip Technology. New Original in Stock. Download Linear Technology ATMEGA48-15AZ datasheet/specifications on AllelcoElec.com. Request a quote for ATMEGA48-15AZ, please send us email: info@allelco.com

Specifications

ATMEGA48-15AZ Tech Specifications

ATMEGA48-15AZ - 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 ~ 125°C (TA)
Supplier Device Package	32-TQFP (7x7)	Number of I/O	23
Speed	16MHz	Mounting Type	Surface Mount
Series	Automotive, AEC-Q100, AVR@ ATmega	EEPROM Size	256 x 8
RAM Size	512 x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	4KB (2K x 16)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	I ² C, SPI, UART/USART
Package / Case	32-TQFP	Base Product Number	ATMEGA48
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA48-15AZ

Product Attribute				
Part Number	ATMEGA48-15AZ	ATMEGA48-20AUR	ATMEGA48-20MMU	ATMEGA48-15MT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	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
Oscillator Type	Internal	Internal	Internal	Internal
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Tape & Reel (TR)
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Program Memory Size	4KB (2K x 16)	4KB (2K x 16)	4KB (2K x 16)	4KB (2K x 16)
Base Product Number	ATMEGA48	ATMEGA48	ATMEGA48	ATMEGA48
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	Automotive, AEC-Q100, AVR@ ATmega	AVR@ ATmega	AVR@ ATmega	Automotive, AEC-Q100, AVR@ ATmega
Speed	16MHz	20MHz	20MHz	16MHz
Supplier Device Package	32-TQFP (7x7)	32-TQFP (7x7)	28-VQFN (4x4)	32-QFN (5x5)
Number of I/O	23	23	23	23
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
EEPROM Size	256 x 8	256 x 8	256 x 8	256 x 8
Connectivity	I ² C, SPI, UART/USART	I ² C, SPI, UART/USART	I ² C, SPI, UART/USART	I ² C, SPI, UART/USART
Core Processor	AVR	AVR	AVR	AVR
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	32-TQFP	32-TQFP	28-VFQFN Exposed Pad	32-VFQFN Exposed Pad
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
RAM Size	512 x 8	512 x 8	512 x 8	512 x 8

ATMEGA48-15AZ Datasheet PDF

Download ATMEGA48-15AZ pdf datasheets and Microchip Technology documentation for ATMEGA48-15AZ - Microchip Technology.

Datasheets

[ATMEGA48/88/168 Auto Datasheet.pdf](#)

PCN Packaging


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

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

PCN Design/Specification


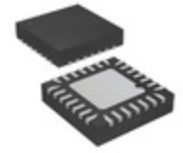


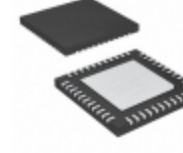




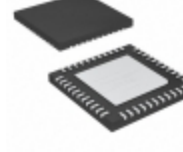








 ATMEGA Datasheet 13/Dec/2018.pdf

PCN Obsolescence/ EOL

 ATmega48,88,168,164P,324P Devices 10/Sep/2013.pdf

Customers Also Interested in

Recommended Products

					
ATMEGA48-20AUR Microchip Technology IC MCU 8BIT 4KB FLASH 32TQFP	ATMEGA48-20MMU Microchip Technology IC MCU 8BIT 4KB FLASH 28VQFN	ATMEGA48-15MT Microchip Technology IC MCU 8BIT 4KB FLASH 32QFN	ATMEGA406-1AAU_SL283 Atmel (Microchip Technology)	ATMEGA32U4RC-MU Microchip Technology IC MCU 8BIT 32KB FLASH 44VQFN	ATMEGA48-20AJ Microchip Technology IC MCU 8BIT 4KB FLASH 32TQFP
					
ATMEGA406-1AAU Microchip Technology IC MCU 8BIT 40KB FLASH 48LQFP	ATMEGA48-15MT Atmel IC MCU 8BIT 4KB FLASH 32QFN	ATMEGA48-20AU Atmel IC MCU 8BIT 4KB FLASH 32TQFP	ATMEGA32U4RC-MUR Microchip Technology IC MCU 8BIT 32KB FLASH 44VQFN	ATMEGA48-15AT1 Atmel IC MCU 8BIT 4KB FLASH 32TQFP	ATMEGA45DB1610-SU Atmel (Microchip Technology)
					
ATMEGA48-20AU Microchip Technology IC MCU 8BIT 4KB FLASH 32TQFP	ATMEGA48 Atmel (Microchip Technology)	ATMEGA48-15AT1 Microchip Technology IC MCU 8BIT 4KB FLASH 32TQFP	ATMEGA48-20AUR Atmel IC MCU 8BIT 4KB FLASH 32TQFP	ATMEGA32U4RC-AU Microchip Technology IC MCU 8BIT 32KB FLASH 44TQFP	ATMEGA406-1AAU Atmel IC MCU 8BIT 40KB FLASH 48LQFP

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

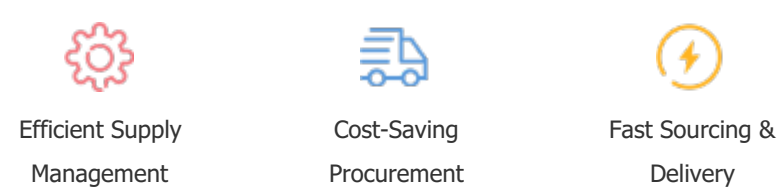
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

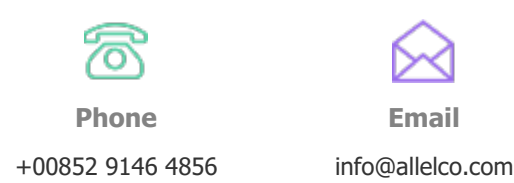
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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