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See specifications for product details.



ATMEGA649-16MU

Manufacturer Part Number **ATMEGA649-16MU**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-ATMEGA649-16MU**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 8BIT 64KB FLASH 64QFN**

Package **64-VFQFN Exposed Pad**

Data sheet [ATmega329, 649, 3290, 6490\(V\) Datasheet.pdf](#)

[ATmega329, 649, 3290, 6490\(V\) Summary.pdf](#)

RoHs Status **ROHS3 Compliant**

Get a Quote

ATMEGA649-16MU - Microchip Technology.New Original in Stock. Download Linear Technology ATMEGA649-16MU datasheet/specifications on AllelcoElec.com.
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Specifications

ATMEGA649-16MU Tech Specifications

ATMEGA649-16MU - 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 ~ 85°C (TA)
Supplier Device Package	64-QFN (9x9)	Number of I/O	53
Speed	16MHz	Mounting Type	Surface Mount
Series	AVR® ATmega	EEPROM Size	2K x 8
RAM Size	4K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	64KB (32K x 16)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, LCD, POR, PWM, WDT	Connectivity	SPI, UART/USART, USI
Package / Case	64-VFQFN Exposed Pad	Base Product Number	ATMEGA649
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA649-16MU

Product Attribute				
Part Number	ATMEGA649-16MU	ATMEGA6450-16AUR	ATMEGA649P-AU	ATMEGA649P-AUR
Manufacturer	Microchip Technology	Atmel	Microchip Technology	Microchip Technology
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Oscillator Type	Internal	Internal	Internal	Internal
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Program Memory Size	64KB (32K x 16)	64KB (32K x 16)	64KB (32K x 16)	64KB (32K x 16)
RAM Size	4K x 8	4K x 8	4K x 8	4K x 8
Number of I/O	53	68	54	54
Base Product Number	ATMEGA649	ATMEGA6450	ATMEGA649	ATMEGA649
Peripherals	Brown-out Detect/Reset, LCD, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, LCD, POR, PWM, WDT	Brown-out Detect/Reset, LCD, POR, PWM, WDT
Speed	16MHz	16MHz	16MHz	16MHz
Package / Case	64-VFQFN Exposed Pad	100-TQFP	64-TQFP	64-TQFP
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Core Processor	AVR	AVR	AVR	AVR
Supplier Device Package	64-QFN (9x9)	100-TQFP (14x14)	64-TQFP (14x14)	64-TQFP (14x14)
EEPROM Size	2K x 8	2K x 8	2K x 8	2K x 8
Series	AVR® ATmega	AVR® ATmega	AVR® ATmega	AVR® ATmega
Connectivity	SPI, UART/USART, USI	SPI, UART/USART, USI	SPI, UART/USART, USI	SPI, UART/USART, USI
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	1.8V ~ 5.5V	1.8V ~ 5.5V
Package	Tray	Bulk	Tray	Tape & Reel (TR)

ATMEGA649-16MU Datasheet PDF

Download ATMEGA649-16MU pdf datasheets and Microchip Technology documentation for ATMEGA649-16MU - Microchip Technology.

PCN Packaging

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

PCN Design/Specification

[Marking Chgs 11/Jul/2017.pdf](#)

[Copper Bonding Wire 23/Jul/2014.pdf](#)

PCN Assembly/Origin

 2.73KHz.pdf

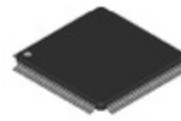


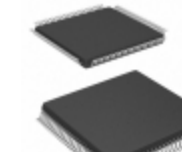

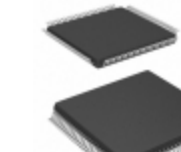
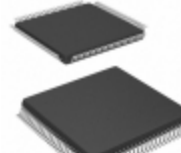

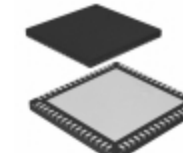




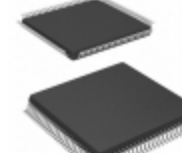
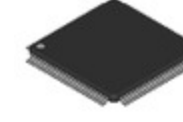

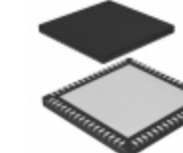

HTML Datasheet

 ATmega329, 649, 3290, 6490(V) Datasheet.pdf

 ATmega329, 649, 3290, 6490(V) Summary.pdf

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Recommended Products

					
ATMEGA6450-16AUR Atmel IC MCU 8BIT 64KB FLASH 100TQFP	ATMEGA649P-AU Microchip Technology IC MCU 8BIT 64KB FLASH 64TQFP	ATMEGA649P-AUR Microchip Technology IC MCU 8BIT 64KB FLASH 64TQFP	ATMEGA6450-16AI Microchip Technology IC MCU 8BIT 64KB FLASH 100TQFP	ATMEGA6490V-8AU Microchip Technology IC MCU 8BIT 64KB FLASH 100TQFP	ATMEGA6450-16AUR Microchip Technology IC MCU 8BIT 64KB FLASH 100TQFP
					
ATMEGA6450A-AUR Microchip Technology IC MCU 8BIT 64KB FLASH 100TQFP	ATMEGA649V-8AI Microchip Technology IC MCU 8BIT 64KB FLASH 64TQFP	ATMEGA649A-MU Microchip Technology IC MCU 8BIT 64KB FLASH 64QFN	ATMEGA649A-MU Atmel IC MCU 8BIT 64KB FLASH 64QFN	ATMEGA649P-AU Atmel IC MCU 8BIT 64KB FLASH 64TQFP	ATMEGA649V-8AU Microchip Technology IC MCU 8BIT 64KB FLASH 64TQFP
					
ATMEGA6490-16AU Atmel IC MCU 8BIT 64KB FLASH 100TQFP	ATMEGA6450P-AU Microchip Technology IC MCU 8BIT 64KB FLASH 100TQFP	ATMEGA6450P-AU Atmel IC MCU 8BIT 64KB FLASH 100TQFP	ATMEGA649-16AI Microchip Technology IC MCU 8BIT 64KB FLASH 64TQFP	ATMEGA645V-8MU Microchip Technology IC MCU 8BIT 64KB FLASH 64QFN	ATMEGA645-16MU Atmel IC MCU 8BIT 64KB FLASH 64QFN

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

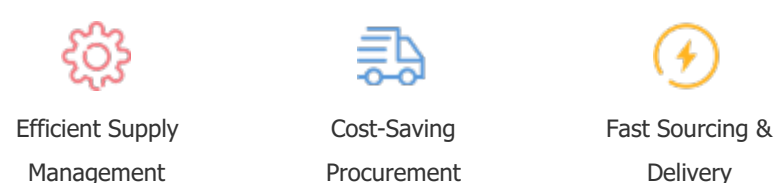
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

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.



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