

Image may be representation.
See specifications for product details.



ATMEGA2561V-8MU

Manufacturer Part Number **ATMEGA2561V-8MU**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-ATMEGA2561V-8MU**

ECAD Model PCB Symbol, Footprint & 3D Model

Parts Description **IC MCU 8BIT 256KB FLASH 64QFN**

Package **64-VFQFN Exposed Pad**

Data sheet **ATMEGA640, 1280-81, 2560-61(V) Complete.pdf**

RoHs Status **ROHS3 Compliant**

Get a Quote

ATMEGA2561V-8MU - Microchip Technology. New Original in Stock. Download Linear Technology ATMEGA2561V-8MU datasheet/specifications on AllelcoElec.com. Request a quote for ATMEGA2561V-8MU, please send us email: info@allelco.com

Specifications

ATMEGA2561V-8MU Tech Specifications
ATMEGA2561V-8MU - 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 | 64-QFN (9x9) | Number of I/O | 54 |
| Speed | 8MHz | Mounting Type | Surface Mount |
| Series | AVR® ATmega | EEPROM Size | 4K x 8 |
| RAM Size | 8K x 8 | Data Converters | A/D 8x10b |
| Program Memory Type | FLASH | Core Size | 8-Bit |
| Program Memory Size | 256KB (128K x 16) | Core Processor | AVR |
| Peripherals | Brown-out Detect/Reset, POR, PWM, WDT | Connectivity | EBI/EMI, I ² C, SPI, UART/USART |
| Package / Case | 64-VFQFN Exposed Pad | Base Product Number | ATMEGA2561 |
| Package | Tray | | |

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA2561V-8MU

| Product Attribute | | | | |
|----------------------------|--|---------------------------------------|--|--|
| Part Number | ATMEGA2561V-8MU | ATMEGA32-16AU | ATMEGA2561-16AUR | ATMEGA2561V-8AU |
| Manufacturer | Microchip Technology | Microchip Technology | Atmel | Atmel |
| Package | Tray | Tray | Bulk | Bulk |
| RAM Size | 8K x 8 | 2K x 8 | 8K x 8 | 8K x 8 |
| Core Processor | AVR | AVR | AVR | AVR |
| 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 |
| Number of I/O | 54 | 32 | 54 | 54 |
| Supplier Device Package | 64-QFN (9x9) | 44-TQFP (10x10) | 64-TQFP (14x14) | 64-TQFP (14x14) |
| Oscillator Type | Internal | Internal | Internal | Internal |
| 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 |
| Base Product Number | ATMEGA2561 | ATMEGA32 | ATMEGA2561 | ATMEGA2561 |
| Speed | 8MHz | 16MHz | 16MHz | 8MHz |
| Program Memory Size | 256KB (128K x 16) | 32KB (16K x 16) | 256KB (128K x 16) | 256KB (128K x 16) |
| Mounting Type | Surface Mount | Surface Mount | Surface Mount | Surface Mount |
| Data Converters | A/D 8x10b | A/D 8x10b | A/D 8x10b | A/D 8x10b |
| Core Size | 8-Bit | 8-Bit | 8-Bit | 8-Bit |
| Voltage - Supply (Vcc/Vdd) | 1.8V ~ 5.5V | 4.5V ~ 5.5V | 4.5V ~ 5.5V | 1.8V ~ 5.5V |
| EEPROM Size | 4K x 8 | 1K x 8 | 4K x 8 | 4K x 8 |
| Package / Case | 64-VFQFN Exposed Pad | 44-TQFP | 64-TQFP | 64-TQFP |
| Connectivity | EBI/EMI, I ² C, SPI, UART/USART | I ² C, SPI, UART/USART | EBI/EMI, I ² C, SPI, UART/USART | EBI/EMI, I ² C, SPI, UART/USART |
| Series | AVR® ATmega | AVR® ATmega | AVR® ATmega | AVR® ATmega |

ATMEGA2561V-8MU Datasheet PDF

Download ATMEGA2561V-8MU pdf datasheets and Microchip Technology documentation for ATMEGA2561V-8MU - Microchip Technology.

Datasheets

[ATMEGA640, 1280-81, 2560-61\(V\) Complete.pdf](#)

PCN Packaging

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

[Boxes 07/Dec/2016.pdf](#)

PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf



ATmega640/1280/1281/2560/2561
07/May/2020.pdf

PCN Other



MSL Revision A 26/Mar/2014.pdf

PCN Assembly/Origin



Fab Site 01/Mar/2022.pdf

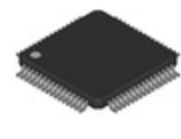
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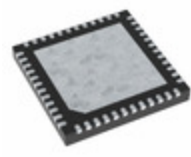
ATMEGA32-16AU

Microchip Technology
IC MCU 8BIT 32KB FLASH 44TQFP



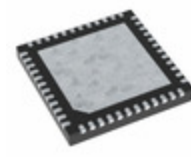
ATMEGA2561-16AUR

Atmel
IC MCU 8BIT 256KB FLASH 64TQFP



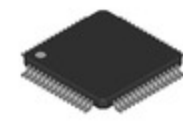
ATMEGA2564RFR2-ZUR

Microchip Technology
IC RF TXRX+MCU 802.15.4 48VQFN



ATMEGA2564RFR2-ZFR

Microchip Technology
IC RF TXRX+MCU 802.15.4 48VQFN



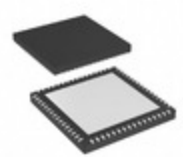
ATMEGA2561V-8AU

Atmel
IC MCU 8BIT 256KB FLASH 64TQFP



ATMEGA2561-16AUR

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IC MCU 8BIT 256KB FLASH 64TQFP



ATMEGA256RFR2-ZFR

Microchip Technology
IC RF TXRX+MCU 802.15.4 64VQFN



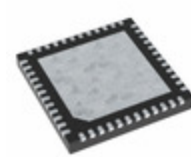
ATMEGA32-16AC

Microchip Technology
IC MCU 8BIT 32KB FLASH 44TQFP



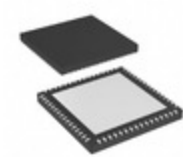
ATMEGA2560V-8CU

Atmel
IC MCU 8BIT 256KB FLASH 100CBGA



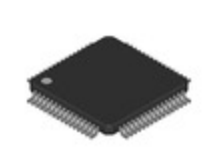
ATMEGA2564RFR2-ZU

Microchip Technology
IC RF TXRX+MCU 802.15.4 48VQFN



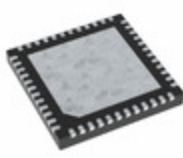
ATMEGA256RFR2-ZUR

Microchip Technology
IC RF TXRX+MCU 802.15.4 64VQFN



ATMEGA2561-16AU

Atmel
IC MCU 8BIT 256KB FLASH 64TQFP



ATMEGA2564RFR2-ZF

Microchip Technology
IC RF TXRX+MCU 802.15.4 48VQFN



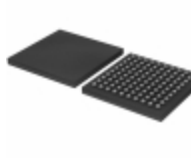
ATMEGA2561V-8AUR

Microchip Technology
IC MCU 8BIT 256KB FLASH 64TQFP



ATMEGA2561V-8AU

Microchip Technology
IC MCU 8BIT 256KB FLASH 64TQFP



ATMEGA2560V-8CU

Microchip Technology
IC MCU 8BIT 256KB FLASH 100CBGA



ATMEGA2561-16AU

Microchip Technology
IC MCU 8BIT 256KB FLASH 64TQFP



ATMEGA32-16AI

Microchip Technology
IC MCU 8BIT 32KB FLASH 44TQFP

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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