

Image may be representation.
See specifications for product details.



ATMEGA1280V-8CU

| | |
|--------------------------|--|
| Manufacturer Part Number | ATMEGA1280V-8CU |
| Manufacturer | Microchip Technology |
| Allelco Part Number | 32D-ATMEGA1280V-8CU |
| ECAD Model | Request Free CAD Models |
| Parts Description | IC MCU 8BIT 128KB FLASH 100CBGA |
| Package | 100-TFBGA |
| Data sheet | Cylindrical Battery Holders.pdf |
| RoHs Status | ROHS3 Compliant |

Get a Quote

ATMEGA1280V-8CU - Microchip Technology. New Original in Stock. Download Linear Technology ATMEGA1280V-8CU datasheet/specifications on AllelcoElec.com. Request a quote for ATMEGA1280V-8CU, please send us email: info@allelco.com

Specifications

ATMEGA1280V-8CU Tech Specifications
ATMEGA1280V-8CU - 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 | 100-CBGA (9x9) | Number of I/O | 86 |
| Speed | 8MHz | Mounting Type | Surface Mount |
| Series | AVR® ATmega | EEPROM Size | 4K x 8 |
| RAM Size | 8K x 8 | Data Converters | A/D 16x10b |
| Program Memory Type | FLASH | Core Size | 8-Bit |
| Program Memory Size | 128KB (64K x 16) | Core Processor | AVR |
| Peripherals | Brown-out Detect/Reset, POR, PWM, WDT | Connectivity | EBI/EMI, I ² C, SPI, UART/USART |
| Package / Case | 100-TFBGA | Base Product Number | ATMEGA1280 |
| Package | Tray | | |

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATMEGA1280V-8CU

| Product Attribute | | | | |
|----------------------------|--|--|--|--|
| Part Number | ATMEGA1280V-8CU | ATMEGA1281-16AU | ATMEGA1281-16MU | ATMEGA1280-16AU |
| Manufacturer | Microchip Technology | Atmel | Microchip Technology | Atmel |
| Program Memory Size | 128KB (64K x 16) | 128KB (64K x 16) | 128KB (64K x 16) | 128KB (64K x 16) |
| Package / Case | 100-TFBGA | 64-TQFP | 64-VFQFN Exposed Pad | 100-TQFP |
| Package | Tray | Bulk | Tray | Bulk |
| RAM Size | 8K x 8 | 8K x 8 | 8K x 8 | 8K x 8 |
| Connectivity | EBI/EMI, I ² C, SPI, UART/USART | EBI/EMI, I ² C, SPI, UART/USART | EBI/EMI, I ² C, SPI, UART/USART | EBI/EMI, I ² C, SPI, UART/USART |
| Number of I/O | 86 | 54 | 54 | 86 |
| Series | AVR® ATmega | AVR® ATmega | AVR® ATmega | AVR® ATmega |
| Oscillator Type | Internal | Internal | Internal | Internal |
| Mounting Type | Surface Mount | Surface Mount | Surface Mount | Surface Mount |
| Speed | 8MHz | 16MHz | 16MHz | 16MHz |
| Supplier Device Package | 100-CBGA (9x9) | 64-TQFP (14x14) | 64-QFN (9x9) | 100-TQFP (14x14) |
| Data Converters | A/D 16x10b | A/D 8x10b | A/D 8x10b | A/D 16x10b |
| 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 |
| Base Product Number | ATMEGA1280 | ATMEGA1281 | ATMEGA1281 | ATMEGA1280 |
| Voltage - Supply (Vcc/Vdd) | 1.8V ~ 5.5V | 2.7V ~ 5.5V | 2.7V ~ 5.5V | 2.7V ~ 5.5V |
| Core Processor | AVR | AVR | AVR | AVR |
| Core Size | 8-Bit | 8-Bit | 8-Bit | 8-Bit |
| EEPROM Size | 4K x 8 | 4K x 8 | 4K x 8 | 4K x 8 |
| 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 |

ATMEGA1280V-8CU Datasheet PDF

Download ATMEGA1280V-8CU pdf datasheets and Microchip Technology documentation for ATMEGA1280V-8CU - Microchip Technology.

Datasheets

[Cylindrical Battery Holders.pdf](#)

PCN Packaging

[2.73KHz.pdf](#)

PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf



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

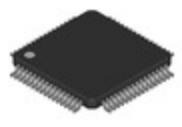
PCN Assembly/Origin



2.73KHz.pdf

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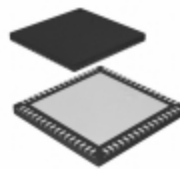
ATMEGA1281-16AU

Atmel
IC MCU 8BIT 128KB FLASH 64TQFP



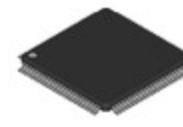
ATMEGA128-8AI

Atmel (Microchip Technology)



ATMEGA1281-16MU

Microchip Technology
IC MCU 8BIT 128KB FLASH 64QFN



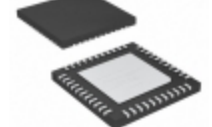
ATMEGA1280-16AU

Atmel
IC MCU 8BIT 128KB FLASH 100TQFP



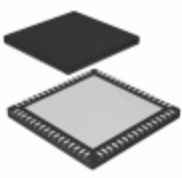
ATMEGA128-16MU

Atmel
IC MCU 8BIT 128KB FLASH 64QFN



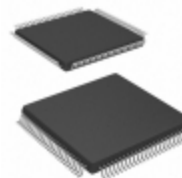
ATMEGA1284-MU

Microchip Technology
IC MCU 8BIT 128KB FLASH 44VQFN



ATMEGA1281V-8MU

Microchip Technology
IC MCU 8BIT 128KB FLASH 64QFN



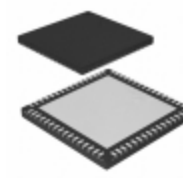
ATMEGA1280V-8AUR

Microchip Technology
IC MCU 8BIT 128KB FLASH 100TQFP



ATMEGA1281-16MU

Atmel
IC MCU 8BIT 128KB FLASH 64QFN



ATMEGA1281V-8MUR

Microchip Technology
IC MCU 8BIT 128KB FLASH 64QFN



ATMEGA1281-16AUR

Microchip Technology
IC MCU 8BIT 128KB FLASH 64TQFP



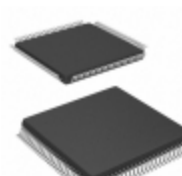
ATMEGA1280V-8AU

Microchip Technology
IC MCU 8BIT 128KB FLASH 100TQFP



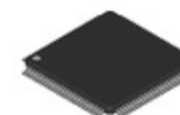
ATMEGA1281-AU

Atmel (Microchip Technology)



ATMEGA1280-16AU

Microchip Technology
IC MCU 8BIT 128KB FLASH 100TQFP



ATMEGA1280V-8AU

Atmel
IC MCU 8BIT 128KB FLASH 100TQFP



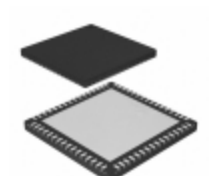
ATMEGA1281V-8AU

Microchip Technology
IC MCU 8BIT 128KB FLASH 64TQFP



ATMEGA1281-16AU

Microchip Technology
IC MCU 8BIT 128KB FLASH 64TQFP



ATMEGA128-16MU

Microchip Technology
IC MCU 8BIT 128KB 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 -



Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@allelco.com

Certifications & Memberships



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