



Image may be representation.  
See specifications for product details.



## AT32UC3A0512AU-ALUT

Manufacturer Part Number **AT32UC3A0512AU-ALUT**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-AT32UC3A0512AU-ALUT**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 32BIT 512KB FLASH 144LQFP**

Package **144-LQFP**

Data sheet **[AT32UC3A Datasheet.pdf](#)**

**[Cylindrical Battery Holders.pdf](#)**

RoHs Status **ROHS3 Compliant**

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AT32UC3A0512AU-ALUT - Microchip Technology. New Original in Stock. Download Linear Technology AT32UC3A0512AU-ALUT datasheet/specifications on AllelcoElec.com. Request a quote for AT32UC3A0512AU-ALUT, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

AT32UC3A0512AU-ALUT Tech Specifications

AT32UC3A0512AU-ALUT - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	109
Speed	66MHz	Mounting Type	Surface Mount
Series	AVR@32 UC3 A0 Audio	EEPROM Size	-
RAM Size	64K x 8	Data Converters	A/D 8x10b; D/A 2x16b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	EBI/EMI, Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB OTG
Package / Case	144-LQFP	Base Product Number	AT32UC3
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology AT32UC3A0512AU-ALUT

Product Attribute				
Part Number	AT32UC3A0512AU-ALUT	<a href="#">AT32UC3A1256-AUT</a>	<a href="#">AT32UC3A0512-CTUT</a>	<a href="#">AT32UC3A1128-AUT</a>
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	64K x 8	64K x 8	64K x 8	32K x 8
Speed	66MHz	66MHz	66MHz	66MHz
Package	Tray	Tray	Tray	Tray
Number of I/O	109	69	109	69
EEPROM Size	-	-	-	-
Series	AVR@32 UC3 A0 Audio	AVR@32 UC3 A1	AVR@32 UC3 A0	AVR@32 UC3 A1
Program Memory Size	512KB (512K x 8)	256KB (256K x 8)	512KB (512K x 8)	128KB (128K x 8)
Connectivity	EBI/EMI, Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB OTG	Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB OTG	EBI/EMI, Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB OTG	Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB OTG
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V
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)
Package / Case	144-LQFP	100-TQFP	144-TFBGA	100-TQFP
Base Product Number	AT32UC3	AT32UC3	AT32UC3	AT32UC3
Data Converters	A/D 8x10b; D/A 2x16b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Core Processor	AVR	AVR	AVR	AVR
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
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Supplier Device Package	144-LQFP (20x20)	100-TQFP (14x14)	144-FFBGA (11x11)	100-TQFP (14x14)

## AT32UC3A0512AU-ALUT Datasheet PDF

Download AT32UC3A0512AU-ALUT pdf datasheets and Microchip Technology documentation for AT32UC3A0512AU-ALUT - Microchip Technology.

### Datasheets

AT32UC3A Datasheet.pdf

### PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

Transfer to Microchip/Label/Pkg 5/Sep/2016.pdf

### HTML Datasheet

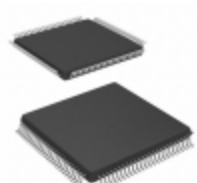
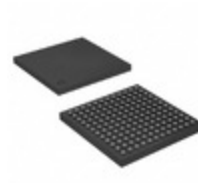
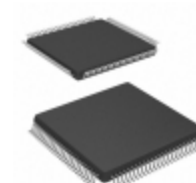

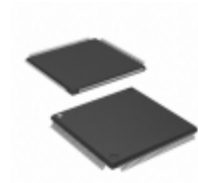
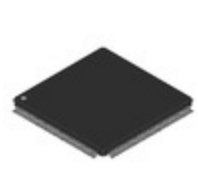
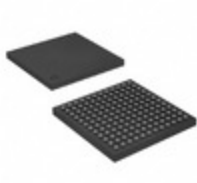





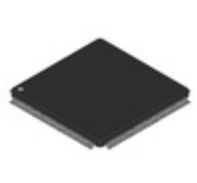
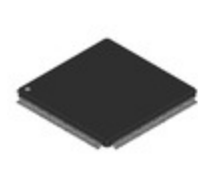


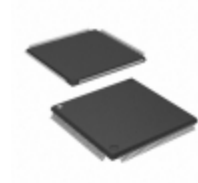

Cylindrical Battery Holders.pdf

### PCN Obsolescence/ EOL

Cylindrical Battery Holders.pdf

### Customers Also Interested in

#### Recommended Products

 <b>AT32UC3A1256-AUT</b> Microchip Technology IC MCU 32BIT 256KB FLASH 100TQFP	 <b>AT32UC3A0512-CTUT</b> Microchip Technology IC MCU 32BIT 512KB FL5H 144FFBGA	 <b>AT32UC3A1128-AUT</b> Microchip Technology IC MCU 32BIT 128KB FLASH 100TQFP	 <b>AT32UC3A1512-AUR</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100TQFP	 <b>AT32UC3A0512-ALUT</b> Microchip Technology IC MCU 32BIT 512KB FLASH 144LQFP	 <b>AT32UC3A0512-ALUT</b> Atmel IC MCU 32BIT 512KB FLASH 144LQFP
 <b>AT32UC3A0512-CTUR</b> Microchip Technology IC MCU 32BIT 512KB FL5H 144FFBGA	 <b>AT32UC3A1256C-AU</b> Atmel (Microchip Technology)	 <b>AT32UC3A1256-U</b> Atmel (Microchip Technology)	 <b>AT32UC3A0256-U</b> Atmel (Microchip Technology)	 <b>AT32UC3A0256-CTU</b> Atmel (Microchip Technology)	 <b>AT32UC3A1256-AU</b> Atmel (Microchip Technology)
 <b>AT32UC3A0256-ALUT</b> Atmel IC MCU 32BIT 256KB FLASH 144LQFP	 <b>AT32UC3A0256-ALUR</b> Atmel IC MCU 32BIT 256KB FLASH 144LQFP	 <b>AT32UC3A1512-AUT</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100TQFP	 <b>AT32UC3A1512-AU</b> Atmel (Microchip Technology)	 <b>AT32UC3A0256-ALUT</b> Microchip Technology IC MCU 32BIT 256KB FLASH 144LQFP	 <b>AT32UC3A0512-U</b> Atmel (Microchip Technology)

### 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.



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