



Image may be representation.  
See specifications for product details.



## AT32UC3B0512-A2UT

Manufacturer Part Number	<b>AT32UC3B0512-A2UT</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-AT32UC3B0512-A2UT
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 512KB FLASH 64TQFP
Package	64-TQFP
Data sheet	<b>AT32UC3B Series Complete.pdf</b> <b>AT32UC3B Series Summary.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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AT32UC3B0512-A2UT - Microchip Technology. New Original in Stock. Download Linear Technology AT32UC3B0512-A2UT datasheet/specifications on AllelcoElec.com. Request a quote for AT32UC3B0512-A2UT, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

AT32UC3B0512-A2UT Tech Specifications

AT32UC3B0512-A2UT - 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	64-TQFP (10x10)	Number of I/O	44
Speed	60MHz	Mounting Type	Surface Mount
Series	AVR@32 UC3 B	EEPROM Size	-
RAM Size	96K x 8	Data Converters	A/D 8x10b
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, DMA, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, IrDA, SPI, SSC, UART/USART, USB
Package / Case	64-TQFP	Base Product Number	AT32UC3
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology AT32UC3B0512-A2UT

Product Attribute				
Part Number	AT32UC3B0512-A2UT	<b>AT32UC3B0512-Z2UT</b>	<b>AT32UC3B0128-Z2UT</b>	AT32UC3B0512-A2UR
Manufacturer	Microchip Technology	Microchip Technology	Atmel	Microchip Technology
Oscillator Type	Internal	Internal	Internal	Internal
Base Product Number	AT32UC3	AT32UC3	AT32UC3	AT32UC3
EEPROM Size	-	-	-	-
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
Speed	60MHz	60MHz	60MHz	60MHz
Supplier Device Package	64-TQFP (10x10)	64-QFN (9x9)	64-QFN (9x9)	64-TQFP (10x10)
Program Memory Size	512KB (512K x 8)	512KB (512K x 8)	128KB (128K x 8)	512KB (512K x 8)
Number of I/O	44	44	44	44
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
Package / Case	64-TQFP	64-VFQFN Exposed Pad	64-VFQFN Exposed Pad	64-TQFP
Package	Tray	Tray	Bulk	Tape & Reel (TR)
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT
Connectivity	I <sup>2</sup> C, IrDA, SPI, SSC, UART/USART, USB	I <sup>2</sup> C, IrDA, SPI, SSC, UART/USART, USB	I <sup>2</sup> C, IrDA, SPI, SSC, UART/USART, USB	I <sup>2</sup> C, IrDA, SPI, SSC, UART/USART, USB
RAM Size	96K x 8	96K x 8	32K x 8	96K x 8
Core Processor	AVR	AVR	AVR	AVR
Series	AVR@32 UC3 B	AVR@32 UC3 B	AVR@32 UC3 B	AVR@32 UC3 B
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V

### AT32UC3B0512-A2UT Datasheet PDF

Download AT32UC3B0512-A2UT pdf datasheets and Microchip Technology documentation for AT32UC3B0512-A2UT - Microchip Technology.

#### PCN Packaging

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

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

#### PCN Design/Specification

[Cylindrical Battery Holders.pdf](#)

## HTML Datasheet

 AT32UC3B Series Complete.pdf



















 AT32UC3B Series Summary.pdf

## PCN Assembly/Origin

 2.73KHz.pdf

## Customers Also Interested in

### Recommended Products

					
<b>AT32UC3B0256-U</b> Atmel (Microchip Technology)	<b>AT32UC3B0512-Z2UT</b> Microchip Technology IC MCU 32BIT 512KB FLASH 64QFN	<b>AT32UC3B0128-Z2UT</b> Atmel IC MCU 32BIT 128KB FLASH 64QFN	<b>AT32UC3B0512-A2UR</b> Microchip Technology IC MCU 32BIT 512KB FLASH 64TQFP	<b>AT32UC3B0256-A2UT</b> Atmel IC MCU 32BIT 256KB FLASH 64TQFP	<b>AT32UC3B064-A2UT</b> Microchip Technology IC MCU 32BIT 64KB FLASH 64TQFP
					
<b>AT32UC3B0512-U</b> Atmel (Microchip Technology)	<b>AT32UC3B1-256-U</b> Atmel (Microchip Technology)	<b>AT32UC3B0512-Z2U</b> Atmel (Microchip Technology)	<b>AT32UC3B064-Z2UT</b> Microchip Technology IC MCU 32BIT 64KB FLASH 64QFN	<b>AT32UC3B1-64</b> Atmel (Microchip Technology)	<b>AT32UC3B0512-Z2UR</b> Microchip Technology IC MCU 32BIT 512KB FLASH 64QFN
					
<b>AT32UC3B0128-Z2UR</b> Atmel IC MCU 32BIT 128KB FLASH 64QFN	<b>AT32UC3B0256-A2UT</b> Microchip Technology IC MCU 32BIT 256KB FLASH 64TQFP	<b>AT32UC3B0256-Z2UT</b> Atmel IC MCU 32BIT 256KB FLASH 64QFN	<b>AT32UC3B0128-Z2UT</b> Microchip Technology IC MCU 32BIT 128KB FLASH 64QFN	<b>AT32UC3B1128-AUR</b> Microchip Technology IC MCU 32BIT 128KB FLASH 48TQFP	<b>AT32UC3B0256-Z2UT</b> Microchip Technology IC MCU 32BIT 256KB 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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