

Image may be representation.
See specifications for product details.



AT32UC3C2512C-A2UT

Manufacturer Part Number	AT32UC3C2512C-A2UT
Manufacturer	Atmel
Allelco Part Number	32D-AT32UC3C2512C-A2UT
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 512KB FLASH 64TQFP
Package	64-TQFP
Data sheet	AT32UC3C2512C-A2UT.pdf

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Specifications

AT32UC3C2512C-A2UT Tech Specifications
AT32UC3C2512C-A2UT - Atmel technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Atmel	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	3V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-TQFP (10x10)	Number of I/O	45
Speed	66MHz	Mounting Type	Surface Mount
Series	AVR@32 UC3 C	EEPROM Size	-
RAM Size	64K x 8	Data Converters	A/D 11x12b; D/A 2x12b
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, I ² S, POR, PWM, WDT	Connectivity	CANbus, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB
Package / Case	64-TQFP	Base Product Number	AT32UC3
Package	Bulk		

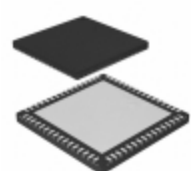
Parts with Similar Specifications

The three parts on the right have similar specifications to Atmel AT32UC3C2512C-A2UT

Product Attribute				
Part Number	AT32UC3C2512C-A2UT	AT32UC3C2256C-Z2UR	AT32UC3C2256C-Z2UT	AT32UC3C2512C-Z2ZR
Manufacturer	Atmel	Microchip Technology	Microchip Technology	Microchip Technology
RAM Size	64K x 8	64K x 8	64K x 8	64K x 8
Speed	66MHz	66MHz	66MHz	50MHz
EEPROM Size	-	-	-	-
Package / Case	64-TQFP	64-VFQFN Exposed Pad	64-VFQFN Exposed Pad	64-VFQFN Exposed Pad
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Series	AVR@32 UC3 C	AVR@32 UC3 C	AVR@32 UC3 C	Automotive, AEC-Q100, AVR@32 UC3 C
Supplier Device Package	64-TQFP (10x10)	64-QFN (9x9)	64-QFN (9x9)	64-QFN (9x9)
Base Product Number	AT32UC3	AT32UC3	AT32UC3	AT32UC3
Program Memory Size	512KB (512K x 8)	256KB (256K x 8)	256KB (256K x 8)	512KB (512K x 8)
Core Processor	AVR	AVR	AVR	AVR
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT
Voltage - Supply (Vcc/Vdd)	3V ~ 5.5V	3V ~ 5.5V	3V ~ 5.5V	3V ~ 5.5V
Number of I/O	45	45	45	45
Data Converters	A/D 11x12b; D/A 2x12b	A/D 11x12b; D/A 2x12b	A/D 11x12b; D/A 2x12b	A/D 11x12b; D/A 2x12b
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	CANbus, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, Ethernet, I ² C, IrDA, LINbus, SPI, UART/USART, USB
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)
Package	Bulk	Tape & Reel (TR)	Tray	Tape & Reel (TR)

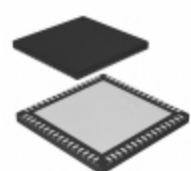
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Recommended Products



AT32UC3C2256C-Z2UR

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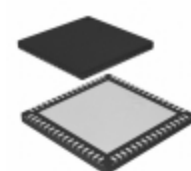
AT32UC3C2256C-Z2UT

Microchip Technology
IC MCU 32BIT 256KB FLASH 64QFN



AT32UC3C2256C-Z

Atmel (Microchip Technology)



AT32UC3C2512C-Z2ZR

Microchip Technology
IC MCU 32BIT 512KB FLASH 64QFN



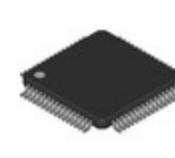
AT32UC3C264C-A2UR

Microchip Technology
IC MCU 32BIT 64KB FLASH 64TQFP



AT32UC3C2512C-A2UT

Microchip Technology
IC MCU 32BIT 512KB FLASH 64TQFP



AT32UC3C2512C-A2ZR

Microchip Technology
IC MCU 32BIT 512KB FLASH 64TQFP

AT32UC3C2256C-Z2UT

Atmel
IC MCU 32BIT 256KB FLASH 64QFN

AT32UC3C2256C-U

Atmel (Microchip Technology)

AT32UC3C264C-A2UT

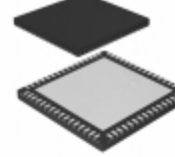
Atmel
IC MCU 32BIT 64KB FLASH 64TQFP

AT32UC3C2512C-A2ZT

Microchip Technology
IC MCU 32BIT 512KB FLASH 64TQFP

AT32UC3C264C-AU

Atmel (Microchip Technology)



AT32UC3C2256C-Z2UR

Atmel
IC MCU 32BIT 256KB FLASH 64QFN

AT32UC3C264C-A2UT

Microchip Technology
IC MCU 32BIT 64KB FLASH 64TQFP

AT32UC3C2256C-A2ZT

Microchip Technology
IC MCU 32BIT 256KB FLASH 64TQFP

AT32UC3C2256C-Z2ZR

Microchip Technology
IC MCU 32BIT 256KB FLASH 64QFN

AT32UC3C2512C-z

Atmel (Microchip Technology)

AT32UC3C264C-U

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:
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