



Image may be representation.  
See specifications for product details.



## AT91SAM7X512-AU

Manufacturer Part Number	<b>AT91SAM7X512-AU</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-AT91SAM7X512-AU
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 16/32B 512KB FLSH 100LQFP
Package	100-LQFP
Data sheet	<b>Cylindrical Battery Holders.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

AT91SAM7X512-AU - Microchip Technology. New Original in Stock. Download Linear Technology AT91SAM7X512-AU datasheet/specifications on AllelcoElec.com. Request a quote for AT91SAM7X512-AU, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

AT91SAM7X512-AU Tech Specifications  
AT91SAM7X512-AU - 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 ~ 1.95V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	62
Speed	55MHz	Mounting Type	Surface Mount
Series	SAM7X	EEPROM Size	-
RAM Size	128K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	16/32-Bit
Program Memory Size	512KB (512K x 8)	Core Processor	ARM7®
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Connectivity	CANbus, Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB
Package / Case	100-LQFP	Base Product Number	AT91SAM7X512
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology AT91SAM7X512-AU

Product Attribute				
Part Number	AT91SAM7X512-AU	AT91SAM7X256-AU	AT91SAM7XC512-CU	AT91SAM7XC256B-AU
Manufacturer	Microchip Technology	Microchip Technology	Atmel	Microchip Technology
Series	SAM7X	SAM7X	SAM7XC	SAM7XC
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Speed	55MHz	55MHz	55MHz	55MHz
Core Processor	ARM7®	ARM7®	ARM7®	ARM7®
Supplier Device Package	100-LQFP (14x14)	100-LQFP (14x14)	100-TFBGA (9x9)	100-LQFP (14x14)
Connectivity	CANbus, Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB	CANbus, Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB	CANbus, Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB	CANbus, Ethernet, I <sup>2</sup> C, SPI, SSC, UART/USART, USB
Number of I/O	62	62	62	62
Voltage - Supply (Vcc/Vdd)	1.65V ~ 1.95V	1.65V ~ 1.95V	1.65V ~ 1.95V	1.65V ~ 1.95V
Package	Tray	Tray	Bulk	Tray
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	100-LQFP	100-LQFP	100-TFBGA	100-LQFP
Base Product Number	AT91SAM7X512	AT91SAM7X256	AT91SAM7XC512	AT91SAM7XC256
RAM Size	128K x 8	64K x 8	128K x 8	64K x 8
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
EEPROM Size	-	-	-	-
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
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Oscillator Type	Internal	Internal	Internal	Internal
Core Size	16/32-Bit	16/32-Bit	16/32-Bit	16/32-Bit
Program Memory Size	512KB (512K x 8)	256KB (256K x 8)	512KB (512K x 8)	256KB (256K x 8)

## AT91SAM7X512-AU Datasheet PDF

Download AT91SAM7X512-AU pdf datasheets and Microchip Technology documentation for AT91SAM7X512-AU - Microchip Technology.

### Datasheets

[Cylindrical Battery Holders.pdf](#)

### PCN Packaging

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

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



AT91SAM7X512 Devices 19/Feb/2014.pdf



AT91SAM7X512 Revision A 26/Feb/2014.pdf



AT91SAM7X512 Revision B 31/Mar/2014.pdf

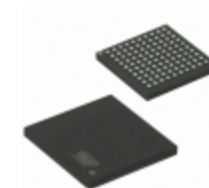
## Customers Also Interested in

### Recommended Products



#### AT91SAM7X256-AU

Microchip Technology  
IC MCU 16/32B 256KB FLSH  
100LQFP



#### AT91SAM7XC512-CU

Atmel  
IC MCU 16/32BIT 512KB 100TFBGA

#### AT91SAM7XC256B-AU

Microchip Technology  
IC MCU 16/32B 256KB FLSH  
100LQFP

#### AT91SAM7XC128-AU

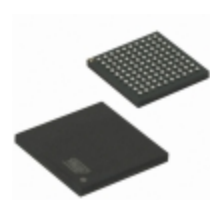
Microchip Technology  
IC MCU 16/32B 128KB FLSH  
100LQFP

#### AT91SAM7X512-A

Atmel (Microchip Technology)

#### AT91SAM7X512B-CU

Microchip Technology  
IC MCU 16/32BIT 512KB 100TFBGA



#### AT91SAM7XC512-AU

Altera (Intel)



#### AT91SAM7X256C-CU

Microchip Technology  
IC MCU 16/32BIT 256KB 100TFBGA

#### AT91SAM7XC256-AU

Microchip Technology  
IC MCU 16/32B 256KB FLSH  
100LQFP

#### AT91SAM7X512B-AUR

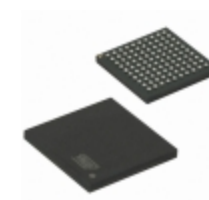
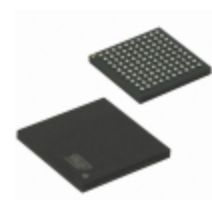
Microchip Technology  
IC MCU 16/32B 512KB FLSH  
100LQFP

#### AT91SAM7X256B-AU

Microchip Technology  
IC MCU 16/32B 256KB FLSH  
100LQFP

#### AT91SAM7X256A-AU

Atmel (Microchip Technology)



#### AT91SAM7X512B-AU

Microchip Technology  
IC MCU 16/32B 512KB FLSH  
100LQFP

#### AT91SAM7X256C-AUR

Microchip Technology  
IC MCU 16/32B 256KB FLSH  
100LQFP

#### AT91SAM7XC512-CU

Microchip Technology  
IC MCU 16/32BIT 512KB 100TFBGA

#### AT91SAM7X256-AUB

Atmel (Microchip Technology)

#### AT91SAM7X256C-AU

Microchip Technology  
IC MCU 16/32B 256KB FLSH  
100LQFP

#### AT91SAM7XC512B-CU

Microchip Technology  
IC MCU 16/32BIT 512KB 100TFBGA

## 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  
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Fast Sourcing &  
Delivery

Contact us if you have any questions.



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### Certifications & Memberships



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