



ATSAM3X8CA-AU

Manufacturer Part Number	ATSAM3X8CA-AU
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAM3X8CA-AU
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 512KB FLASH 100LQFP
Package	100-LQFP
Data sheet	SAM3X/A Series.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAM3X8CA-AU - Microchip Technology. New Original in Stock. Download Linear Technology ATSAM3X8CA-AU datasheet/specifications on AllelcoElec.com.
Request a quote for ATSAM3X8CA-AU, please send us email: info@allelco.com

Specifications

ATSAM3X8CA-AU Tech Specifications
ATSAM3X8CA-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)	1.62V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	63
Speed	84MHz	Mounting Type	Surface Mount
Series	SAM3X	EEPROM Size	-
RAM Size	96K x 8	Data Converters	A/D 16x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Connectivity	CANbus, Ethernet, I²C, IrDA, LINbus, Memory Card, SPI, SSC, UART/USART, USB
Package / Case	100-LQFP	Base Product Number	ATSAM3X
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAM3X8CA-AU

Product Attribute	NO PICTURE			
Part Number	ATSAM3X8CA-AU	ATSAM4C16CB-AU	ATSAM3X8EA-CU	ATSAM3U4CA-CU
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Data Converters	A/D 16x12b; D/A 2x12b	A/D 8x10b	A/D 16x12b; D/A 2x12b	A/D 4x10b, 4x12b
Core Size	32-Bit Single-Core	32-Bit Dual-Core	32-Bit Single-Core	32-Bit Single-Core
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package	Tray	Tray	Tray	Tray
Program Memory Type	FLASH	FLASH	FLASH	FLASH
EEPROM Size	-	-	-	-
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Supplier Device Package	100-LQFP (14x14)	100-LQFP (14x14)	144-BGA (13x13)	100-TFBGA (9x9)
Speed	84MHz	120MHz	84MHz	96MHz
Package / Case	100-LQFP	100-LQFP	144-LFBGA	100-TFBGA
Number of I/O	63	74	103	57
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M4/M4F	ARM® Cortex®-M3	ARM® Cortex®-M3
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
RAM Size	96K x 8	128K x 8	100K x 8	52K x 8
Program Memory Size	512KB (512K x 8)	1MB (1M x 8)	512KB (512K x 8)	256KB (256K x 8)
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT
Series	SAM3X	SAM4C	SAM3X	SAM3U
Base Product Number	ATSAM3X	ATSAM4C	ATSAM3X	ATSAM3U
Connectivity	CANbus, Ethernet, I²C, IrDA, LINbus, Memory Card, SPI, SSC, UART/USART, USB	EBI/EMI, I²C, IrDA, SPI, UART/USART	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, Memory Card, SPI, SSC, UART/USART, USB	EBI/EMI, I²C, Memory Card, SPI, SSC, UART/USART, USB
Oscillator Type	Internal	Internal	Internal	Internal

ATSAM3X8CA-AU Datasheet PDF

Download ATSAM3X8CA-AU pdf datasheets and Microchip Technology documentation for ATSAM3X8CA-AU - Microchip Technology.

Datasheets

SAM3X/A Series.pdf

PCN Packaging

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

Boxes 07/Dec/2016.pdf



Marking Chgs 11/Jul/2017.pdf



Wire Chg 08/Mar/2016.pdf

Customers Also Interested in

Recommended Products

ATSAM4C16CB-AU Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	ATSAM3X8EA-CU Microchip Technology IC MCU 32BIT 512KB FLASH 144BGA	ATSAM3U4CA-CU Microchip Technology IC MCU 32BIT 256KB FLASH 100TFBGA	ATSAM4C16CA-AUR Atmel IC MCU 32BIT 1MB FLASH 100LQFP	ATSAM4C16CB-AU Atmel IC MCU 32BIT 1MB FLASH 100LQFP	ATSAM4C16CA-AUR Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP
ATSAM3U4EA-AU Microchip Technology IC MCU 32BIT 256KB FLASH 144LQFP	ATSAM3U4CA-AU Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP	ATSAM3U2EA-AU Atmel IC MCU 32BIT 128KB FLASH 144LQFP	ATSAM3U4E-AU Atmel (Microchip Technology)	ATSAM3X8EA-AU Microchip Technology IC MCU 32BIT 512KB FLASH 144LQFP	ATSAM3X4CA-AU Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP
ATSAM3U2EA-AU Microchip Technology IC MCU 32BIT 128KB FLASH 144LQFP	ATSAM4C16CA-AU Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	ATSAM3X4CA-AUR Microchip Technology IC MCU 32BIT 256KB FLASH 100LQFP	ATSAM3X4CA-AU Atmel IC MCU 32BIT 256KB FLASH 100LQFP	ATSAM3U4C-AU Atmel (Microchip Technology)	ATSAM4C16CB-AUR Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP

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
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Contact us if you have any questions.

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