



# ATSAM3S4CA-AU

|                          |   |
|--------------------------|---|
| Manufacturer Part Number | <b>ATSAM3S4CA-AU</b>  |
| Manufacturer             | <b>Microchip Technology</b>   |
| Allelco Part Number      | 32D-ATSAM3S4CA-AU   |
| ECAD Model               | PCB Symbol, Footprint & 3D Mode   |
| Parts Description        | IC MCU 32BIT 256KB FLASH 100LQFP  |
| Package                  | 100-LQFP  |
| Data sheet               | <a href="#">SAM3S Datasheet.pdf</a><br><a href="#">SAM3S Series Flyer.pdf</a> |
| RoHS Status              | ROHS3 Compliant   |



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ATSAM3S4CA-AU - Microchip Technology. New Original in Stock. Download Linear Technology ATSAM3S4CA-AU datasheet/specifications on AllelcoElec.com.  
Request a quote for ATSAM3S4CA-AU, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

ATSAM3S4CA-AU Tech Specifications

ATSAM3S4CA-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         | 79  |
| Speed                      | 64MHz  | Mounting Type         | Surface Mount   |
| Series                     | SAM3S  | EEPROM Size           | -   |
| RAM Size                   | 48K x 8  | Data Converters       | A/D 15x10/12b; D/A 2x12b  |
| Program Memory Type        | FLASH  | Core Size             | 32-Bit Single-Core  |
| Program Memory Size        | 256KB (256K x 8)   | Core Processor        | ARM® Cortex®-M3   |
| Peripherals                | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT | Connectivity          | EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB |
| Package / Case             | 100-LQFP   | Base Product Number   | ATSAM3S   |
| Package                    | Tray   |                       |   |

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAM3S4CA-AU

| Product Attribute          |   |   |  |  |
|----------------------------|---|---|--|--|
| Part Number                | ATSAM3S4CA-AU   | <a href="#">ATSAM3U1CB-AU</a>                                     | <a href="#">ATSAM3S4AA-AU</a>                                | <a href="#">ATSAM3S8BA-AU</a>                                  |
| Manufacturer               | Microchip Technology  | Microchip Technology  | Atmel  | Microchip Technology   |
| Series                     | SAM3S   | SAM3U   | SAM3S  | SAM3S  |
| Operating Temperature      | -40°C ~ 85°C (TA)   | -40°C ~ 85°C (TA)   | -40°C ~ 85°C (TA)  | -40°C ~ 85°C (TA)  |
| Base Product Number        | ATSAM3S   | ATSAM3U   | ATSAM3S  | ATSAM3S  |
| Package / Case             | 100-LQFP  | 100-LQFP  | 48-LQFP  | 64-LQFP  |
| Core Processor             | ARM® Cortex®-M3   | ARM® Cortex®-M3   | ARM® Cortex®-M3  | ARM® Cortex®-M3  |
| Core Size                  | 32-Bit Single-Core  | 32-Bit Single-Core  | 32-Bit Single-Core   | 32-Bit Single-Core   |
| Package                    | Tray  | Tray  | Bulk   | Tray   |
| EEPROM Size                | -   | -   | -  | -  |
| Program Memory Type        | FLASH   | FLASH   | FLASH  | FLASH  |
| Speed                      | 64MHz   | 96MHz   | 64MHz  | 64MHz  |
| Data Converters            | A/D 15x10/12b; D/A 2x12b  | A/D 4x10b, 4x12b  | A/D 8x10/12b   | A/D 10x10/12b; D/A 2x12b                                       |
| Supplier Device Package    | 100-LQFP (14x14)  | 100-LQFP (14x14)  | 48-LQFP (7x7)  | 64-LQFP (10x10)  |
| Program Memory Size        | 256KB (256K x 8)  | 64KB (64K x 8)  | 256KB (256K x 8)   | 512KB (512K x 8)   |
| RAM Size                   | 48K x 8   | 20K x 8   | 48K x 8  | 64K x 8  |
| Connectivity               | EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB | EBI/EMI, I <sup>2</sup> C, Memory Card, SPI, SSC, UART/USART, USB | I <sup>2</sup> C, MMC, SPI, SSC, UART/USART, USB             | I <sup>2</sup> C, IrDA, Memory Card, SPI, SSC, UART/USART, USB |
| Peripherals                | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT      | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT      | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT   |
| Mounting Type              | Surface Mount   | Surface Mount   | Surface Mount  | Surface Mount  |
| Number of I/O              | 79  | 57  | 34   | 47   |
| Oscillator Type            | Internal  | Internal  | Internal   | Internal   |
| Voltage - Supply (Vcc/Vdd) | 1.62V ~ 3.6V  | 1.62V ~ 3.6V  | 1.62V ~ 3.6V   | 1.62V ~ 3.6V   |

## ATSAM3S4CA-AU Datasheet PDF

Download ATSAM3S4CA-AU pdf datasheets and Microchip Technology documentation for ATSAM3S4CA-AU - Microchip Technology.

### Datasheets

[SAM3S Datasheet.pdf](#)

### PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

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

### PCN Design/Specification

Cylindrical Battery Holders.pdf

### PCN Assembly/Origin









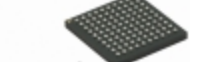









Wafer Foundry Transfer 27/Nov/2013.pdf

### HTML Datasheet

SAM3S Series Flyer.pdf

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|---|---|---|--|---|---|
|    |    |    |    |    |    |
| <b>ATSAM3S4B-AU</b><br>Atmel (Microchip Technology)                                 | <b>ATSAM3U1CB-AU</b><br>Microchip Technology<br>IC MCU 32BIT 64KB FLASH 100LQFP     | <b>ATSAM3S4AA-AU</b><br>Atmel<br>IC MCU 32BIT 256KB FLASH 48LQFP                    | <b>ATSAM3S8BA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 512KB FLASH 64LQFP      | <b>ATSAM3S4BA-AU</b><br>Atmel<br>IC MCU 32BIT 256KB FLASH 64LQFP                      | <b>ATSAM3U1CA-AU</b><br>Atmel<br>IC MCU 32BIT 64KB FLASH 100LQFP                      |
|  |  |  |  |  |  |
| <b>ATSAM3S4AA-MU</b><br>Microchip Technology<br>IC MCU 32BIT 256KB FLASH 48QFN      | <b>ATSAM3S4BA-MU</b><br>Microchip Technology<br>IC MCU 32BIT 256KB FLASH 64QFN      | <b>ATSAM3S8CA-CU</b><br>Microchip Technology<br>IC MCU 32BIT 512KB FLSH 100TFBGA    | <b>ATSAM3S4AA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 256KB FLASH 48LQFP      | <b>ATSAM3S8CA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 512KB FLASH 100LQFP      | <b>ATSAM3S4CA-AUR</b><br>Microchip Technology<br>IC MCU 32BIT 256KB FLASH 100LQFP     |
|  |  |  |  |  |  |
| <b>ATSAM3S4B-MU</b><br>Atmel (Microchip Technology)                                 | <b>ATSAM3U1CA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 64KB FLASH 100LQFP     | <b>ATSAM3S2CA-AUR</b><br>Microchip Technology<br>IC MCU 32BIT 128KB FLASH 100LQFP   | <b>ATSAM3S8CA-CUR</b><br>Microchip Technology<br>IC MCU 32BIT 512KB FLSH 100TFBGA    | <b>ATSAM3S8BA-MU</b><br>Microchip Technology<br>IC MCU 32BIT 512KB FLASH 64QFN        | <b>ATSAM3S4BA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 256KB FLASH 64LQFP       |

## 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 -

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| <br>Efficient Supply Management | <br>Cost-Saving Procurement | <br>Fast Sourcing & Delivery |
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