

Image may be representation.  
See specifications for product details.



## ATSAM3S2AA-MU

|                          |                                |
|--------------------------|--------------------------------|
| Manufacturer Part Number | <b>ATSAM3S2AA-MU</b>           |
| Manufacturer             | <b>Microchip Technology</b>    |
| Allelco Part Number      | 32D-ATSAM3S2AA-MU              |
| ECAD Model               | Request Free CAD Models        |
| Parts Description        | IC MCU 32BIT 128KB FLASH 48QFN |
| Package                  | 48-VFQFN Exposed Pad           |
| Data sheet               | <b>SAM3S Datasheet.pdf</b>     |
|                          | <b>SAM3S Series Flyer.pdf</b>  |
| RoHs Status              | <b>ROHS3 Compliant</b>         |

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ATSAM3S2AA-MU - Microchip Technology. New Original in Stock. Download Linear Technology ATSAM3S2AA-MU datasheet/specifications on AllelcoElec.com.  
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## Specifications

ATSAM3S2AA-MU Tech Specifications

ATSAM3S2AA-MU - 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    | 48-QFN (7x7)                                    | Number of I/O         | 34                                  |
| Speed                      | 64MHz   | Mounting Type         | Surface Mount                       |
| Series                     | SAM3S   | EEPROM Size           | -                                   |
| RAM Size                   | 32K x 8   | Data Converters       | A/D 8x10/12b                        |
| Program Memory Type        | FLASH   | Core Size             | 32-Bit Single-Core                  |
| Program Memory Size        | 128KB (128K x 8)                                | Core Processor        | ARM® Cortex®-M3                     |
| Peripherals                | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT | Connectivity          | I²C, MMC, SPI, SSC, UART/USART, USB |
| Package / Case             | 48-VFQFN Exposed Pad                            | Base Product Number   | ATSAM3S                             |
| Package                    | Tray  |                       |                                     |

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAM3S2AA-MU

| Product Attribute          |   |  |   |  |
|----------------------------|---|--|---|--|
| Part Number                | ATSAM3S2AA-MU                                   | ATSAM3S2CA-AU  | ATSAM3S4AA-AU                                   | ATSAM3S1CB-AU  |
| Manufacturer               | Microchip Technology                            | Microchip Technology                                 | Atmel   | Microchip Technology                                 |
| Supplier Device Package    | 48-QFN (7x7)                                    | 100-LQFP (14x14)                                     | 48-LQFP (7x7)                                   | 100-LQFP (14x14)                                     |
| 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   |
| EEPROM Size                | -   | -  | -   | -  |
| Series                     | SAM3S   | SAM3S  | SAM3S   | SAM3S  |
| Package                    | Tray  | Tray   | Bulk  | Tray   |
| Core Size                  | 32-Bit Single-Core                              | 32-Bit Single-Core                                   | 32-Bit Single-Core                              | 32-Bit Single-Core                                   |
| Base Product Number        | ATSAM3S   | ATSAM3S  | ATSAM3S   | ATSAM3S  |
| Core Processor             | ARM® Cortex®-M3                                 | ARM® Cortex®-M3                                      | ARM® Cortex®-M3                                 | ARM® Cortex®-M3                                      |
| Number of I/O              | 34  | 79   | 34  | 79   |
| Package / Case             | 48-VFQFN Exposed Pad                            | 100-LQFP   | 48-LQFP   | 100-LQFP   |
| Program Memory Size        | 128KB (128K x 8)                                | 128KB (128K x 8)                                     | 256KB (256K x 8)                                | 64KB (64K x 8)                                       |
| Mounting Type              | Surface Mount                                   | Surface Mount  | Surface Mount                                   | Surface Mount  |
| Program Memory Type        | FLASH   | FLASH  | FLASH   | FLASH  |
| Data Converters            | A/D 8x10/12b                                    | A/D 15x10/12b; D/A 2x12b                             | A/D 8x10/12b                                    | A/D 15x10/12b; D/A 2x12b                             |
| Peripherals                | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT      | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT      |
| Operating Temperature      | -40°C ~ 85°C (TA)                               | -40°C ~ 85°C (TA)                                    | -40°C ~ 85°C (TA)                               | -40°C ~ 85°C (TA)                                    |
| RAM Size                   | 32K x 8   | 32K x 8  | 48K x 8   | 16K x 8  |
| Speed                      | 64MHz   | 64MHz  | 64MHz   | 64MHz  |
| Connectivity               | I²C, MMC, SPI, SSC, UART/USART, USB             | EBI/EMI, I²C, Memory Card, SPI, SSC, UART/USART, USB | I²C, MMC, SPI, SSC, UART/USART, USB             | EBI/EMI, I²C, Memory Card, SPI, SSC, UART/USART, USB |

## ATSAM3S2AA-MU Datasheet PDF

Download ATSAM3S2AA-MU pdf datasheets and Microchip Technology documentation for ATSAM3S2AA-MU - Microchip Technology.

### Datasheets

SAM3S Datasheet.pdf

### PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

Boxes 07/Dec/2016.pdf

### PCN Design/Specification

Cylindrical Battery Holders.pdf

### PCN Other

2.73KHz.pdf

### PCN Assembly/Origin




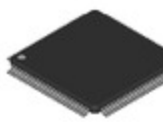






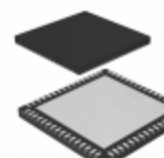
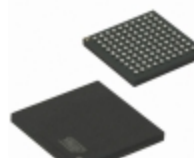





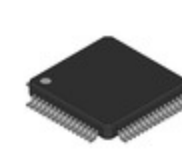
2.73KHz.pdf

### HTML Datasheet

SAM3S Series Flyer.pdf

## Customers Also Interested in

### Recommended Products

|  |  |   |  |  |   |
|--|--|---|--|--|---|
| <br><b>ATSAM3S2CA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 128KB FLASH 100LQFP  | <br><b>ATSAM3S4AA-AU</b><br>Atmel<br>IC MCU 32BIT 256KB FLASH 48LQFP                  | <br><b>ATSAM3S1CB-AU</b><br>Microchip Technology<br>IC MCU 32BIT 64KB FLASH 100LQFP  | <br><b>ATSAM3S1CB-AU</b><br>Atmel<br>IC MCU 32BIT 64KB FLASH 100LQFP                 | <br><b>ATSAM3S2BA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 128KB FLASH 64LQFP   | <br><b>ATSAM3S2CA-AUR</b><br>Microchip Technology<br>IC MCU 32BIT 128KB FLASH 100LQFP  |
| <br><b>ATSAM3S2AA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 128KB FLASH 48LQFP | <br><b>ATSAM3S4AA-MU</b><br>Microchip Technology<br>IC MCU 32BIT 256KB FLASH 48QFN  | <br><b>ATSAM3S1AA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 64KB FLASH 48LQFP | <br><b>ATSAM3S1C-CU</b><br>Atmel (Microchip Technology)                            | <br><b>ATSAM3S2BA-MU</b><br>Microchip Technology<br>IC MCU 32BIT 128KB FLASH 64QFN  | <br><b>ATSAM3S1CB-CU</b><br>Microchip Technology<br>IC MCU 32BIT 64KB FLASH 100TFBGA |
| <br><b>ATSAM3S2A-AU</b><br>Atmel (Microchip Technology)                             | <br><b>ATSAM3S4AA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 256KB FLASH 48LQFP | <br><b>ATSAM3S2BA-MU</b><br>Atmel<br>IC MCU 32BIT 128KB FLASH 64QFN                | <br><b>ATSAM3S1BA-AU</b><br>Microchip Technology<br>IC MCU 32BIT 64KB FLASH 64LQFP | <br><b>ATSAM3S1BB-AUR</b><br>Microchip Technology<br>IC MCU 32BIT 64KB FLASH 64LQFP | <br><b>ATSAM3S1BA-AU</b><br>Atmel<br>IC MCU 32BIT 64KB 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 -

-  Efficient Supply Management
-  Cost-Saving Procurement
-  Fast Sourcing & Delivery

Contact us if you have any questions.

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