



Image may be representation.
See specifications for product details.



ATSAML22J18A-AUT

Manufacturer Part Number **ATSAML22J18A-AUT**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-ATSAML22J18A-AUT**

ECAD Model PCB Symbol, Footprint & 3D Model

Parts Description **IC MCU 32BIT 256KB FLASH 64TQFP**

Package **64-TQFP**

Data sheet **[SAM L22 Datasheet Summary.pdf](#)**

[SAM L22 Family.pdf](#)

RoHs Status **ROHS3 Compliant**

Get a Quote

ATSAML22J18A-AUT - Microchip Technology. New Original in Stock. Download Linear Technology ATSAML22J18A-AUT datasheet/specifications on AllelcoElec.com.
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Specifications

ATSAML22J18A-AUT Tech Specifications

ATSAML22J18A-AUT - 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 ~ 3.63V | Operating Temperature | -40°C ~ 85°C (TA) |
| Supplier Device Package | 64-TQFP (10x10) | Number of I/O | 50 |
| Speed | 32MHz | Mounting Type | Surface Mount |
| Series | SAM L22J | EEPROM Size | - |
| RAM Size | 32K x 8 | Data Converters | A/D 16x12b |
| Program Memory Type | FLASH | Core Size | 32-Bit Single-Core |
| Program Memory Size | 256KB (256K x 8) | Core Processor | ARM® Cortex®-M0+ |
| Peripherals | Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT | Connectivity | I ² C, SPI, UART/USART, USB |
| Package / Case | 64-TQFP | Base Product Number | ATSAML22 |
| Package | Tape & Reel (TR) | | |

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAML22J18A-AUT

| Product Attribute | | | | |
|----------------------------|---|---|---|---|
| Part Number | ATSAML22J18A-AUT | ATSAML22J18A-MUT | ATSAML22N17A-AUT | ATSAML22G16A-AUT |
| Manufacturer | Microchip Technology | Microchip Technology | Microchip Technology | Microchip Technology |
| Speed | 32MHz | 32MHz | 32MHz | 32MHz |
| Oscillator Type | Internal | Internal | Internal | Internal |
| Package / Case | 64-TQFP | 64-VFQFN Exposed Pad | 100-TQFP | 48-TQFP |
| Base Product Number | ATSAML22 | ATSAML22 | ATSAML22 | ATSAML22 |
| Core Size | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit Single-Core |
| Mounting Type | Surface Mount | Surface Mount | Surface Mount | Surface Mount |
| Number of I/O | 50 | 50 | 82 | 36 |
| Connectivity | I ² C, SPI, UART/USART, USB | I ² C, SPI, UART/USART, USB | I ² C, SPI, UART/USART, USB | I ² C, SPI, UART/USART, USB |
| Supplier Device Package | 64-TQFP (10x10) | 64-QFN (9x9) | 100-TQFP (14x14) | 48-TQFP (7x7) |
| EEPROM Size | - | - | - | - |
| Core Processor | ARM® Cortex®-M0+ | ARM® Cortex®-M0+ | ARM® Cortex®-M0+ | ARM® Cortex®-M0+ |
| Package | Tape & Reel (TR) | Tape & Reel (TR) | Tape & Reel (TR) | Tape & Reel (TR) |
| Peripherals | Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT | Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT | Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT | Brown-out Detect/Reset, DMA, LCD, 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) |
| Series | SAM L22J | SAM L22J | SAM L22N | SAM L22G |
| Data Converters | A/D 16x12b | A/D 16x12b | A/D 20x12b | A/D 10x12b |
| Voltage - Supply (Vcc/Vdd) | 1.62V ~ 3.63V | 1.62V ~ 3.63V | 1.62V ~ 3.63V | 1.62V ~ 3.63V |
| Program Memory Type | FLASH | FLASH | FLASH | FLASH |
| RAM Size | 32K x 8 | 32K x 8 | 16K x 8 | 8K x 8 |
| Program Memory Size | 256KB (256K x 8) | 256KB (256K x 8) | 128KB (128K x 8) | 64KB (64K x 8) |

ATSAML22J18A-AUT Datasheet PDF

Download ATSAML22J18A-AUT pdf datasheets and Microchip Technology documentation for ATSAML22J18A-AUT - Microchip Technology.

Datasheets



[SAM L22 Datasheet Summary.pdf](#)



[SAM L22 Family.pdf](#)

PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

Boxes 07/Dec/2016.pdf

PCN Design/Specification

Marking Chgs 11/Jul/2017.pdf

Datasheet Update 24/Nov/2021.pdf

Errata

SAM L22 Family Errata~.pdf

PCN Assembly/Origin

Test Site 16/Mar/2022.pdf

Customers Also Interested in

Recommended Products

| | | | | | |
|--|--|---|---|--|--|
| | | | | | |
| ATSAAML22J18A-MUT Microchip Technology IC MCU 32BIT 256KB FLASH 64QFN | ATSAAML22N17A-AUT Microchip Technology IC MCU 32BIT 128KB FLASH 100TQFP | ATSAMR21E19A-F Atmel (Microchip Technology) | ATSAMR21E18A-MFT Microchip Technology IC RF TXRX+MCU ISM>1GHZ 32VQFN | ATSAML22G16A-AUT Microchip Technology IC MCU 32BIT 64KB FLASH 48TQFP | ATSAML22J16A-AUT Microchip Technology IC MCU 32BIT 64KB FLASH 64TQFP |
| | | | | | |
| ATSAMR21E18A-MU Microchip Technology IC RF TXRX+MCU ISM>1GHZ 32VQFN | ATSAML21J18B-MU Micrel / Microchip Technology | ATSAMR21E18A-MF Microchip Technology IC RF TXRX+MCU ISM>1GHZ 32VQFN | ATSAML22G17A-AUT Microchip Technology IC MCU 32BIT 128KB FLASH 48TQFP | ATSAML22N16A-AUT Microchip Technology IC MCU 32BIT 64KB FLASH 100TQFP | ATSAML21J18B-MUT Microchip Technology IC MCU 32BIT 256KB FLASH 64QFN |
| | | | | | |
| ATSAML22-XPRO Microchip Technology SAM L22 XPLAINED PRO ATSAAML22 | ATSAML22N18A-AUT Microchip Technology IC MCU 32BIT 256KB FLASH 100TQFP | ATSAMR21E16A-MUT Microchip Technology IC RF TXRX+MCU ISM>1GHZ 32VQFN | ATSAML21J18B-UUT Microchip Technology IC MCU 32BIT 256KB FLASH 64WLCSP | ATSAML22G18A-MUT Microchip Technology IC MCU 32BIT 256KB FLASH 48QFN | ATSAML22J17A-AUT Microchip Technology IC MCU 32BIT 128KB FLASH 64TQFP |

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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| Efficient Supply Management | Cost-Saving Procurement | Fast Sourcing & Delivery |
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Contact us if you have any questions.

| | |
|---------------------------|---------------------------|
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|---------------------------|---------------------------|

Certifications & Memberships



View More

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