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See specifications for product details.



ATSAMD51J18A-AUT

Manufacturer Part Number **ATSAMD51J18A-AUT**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-ATSAMD51J18A-AUT**

ECAD Model PCB Symbol, Footprint & 3D Mode

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

Package **64-TQFP**

Data sheet **SAM D5x,E5x Family Datasheet.pdf**

RoHs Status **ROHS3 Compliant**

Get a Quote

ATSAMD51J18A-AUT - Microchip Technology.New Original in Stock. Download Linear Technology ATSAMD51J18A-AUT datasheet/specifications on AllelcoElec.com.
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Specifications

ATSAMD51J18A-AUT Tech Specifications

ATSAMD51J18A-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)	1.71V ~ 3.63V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-TQFP (10x10)	Number of I/O	51
Speed	120MHz	Mounting Type	Surface Mount
Series	SAM D51	EEPROM Size	-
RAM Size	128K x 8	Data Converters	A/D 24x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	256KB (256K x 8)	Core Processor	ARM® Cortex®-M4F
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM	Connectivity	EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB
Package / Case	64-TQFP	Base Product Number	ATSAMD51
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMD51J18A-AUT

Product Attribute				
Part Number	ATSAMD51J18A-AUT	ATSAMD51J19A-MF	ATSAMD51J19A-MU	ATSAMD51G19A-MF
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Data Converters	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 20x12b; D/A 2x12b
Speed	120MHz	120MHz	120MHz	120MHz
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM	Brown-out Detect/Reset, DMA, I ² S, POR, PWM	Brown-out Detect/Reset, DMA, I ² S, POR, PWM	Brown-out Detect/Reset, DMA, I ² S, POR, PWM
Series	SAM D51	Automotive, AEC-Q100, SAM D51	SAM D51	Automotive, AEC-Q100, SAM D51
RAM Size	128K x 8	192K x 8	192K x 8	192K x 8
Program Memory Size	256KB (256K x 8)	512KB (512K x 8)	512KB (512K x 8)	512KB (512K x 8)
Package / Case	64-TQFP	64-VFQFN Exposed Pad	64-VFQFN Exposed Pad	48-VFQFN Exposed Pad
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Supplier Device Package	64-TQFP (10x10)	64-QFN (9x9)	64-VQFN (9x9)	48-QFN (7x7)
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.63V	1.71V ~ 3.63V	1.71V ~ 3.63V	1.71V ~ 3.63V
Number of I/O	51	51	51	37
Core Processor	ARM® Cortex®-M4F	ARM® Cortex®-M4F	ARM® Cortex®-M4F	ARM® Cortex®-M4F
Oscillator Type	Internal	Internal	Internal	Internal
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Base Product Number	ATSAMD51	ATSAMD51	ATSAMD51	ATSAMD51
EEPROM Size	-	-	-	-
Package	Tape & Reel (TR)	Tray	Tray	Tray
Connectivity	EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB	EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB	EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB	EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB

ATSAMD51J18A-AUT Datasheet PDF

Download ATSAMD51J18A-AUT pdf datasheets and Microchip Technology documentation for ATSAMD51J18A-AUT - Microchip Technology.

PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

HTML Datasheet

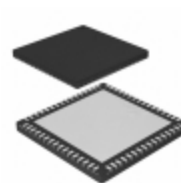
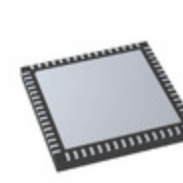
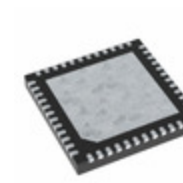

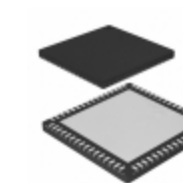
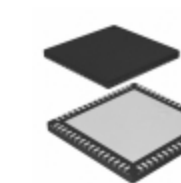

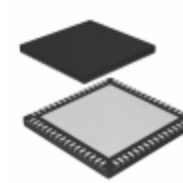

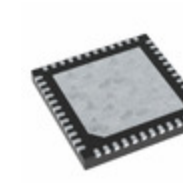

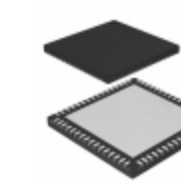



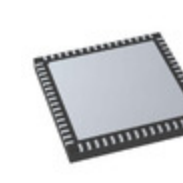


SAM D5x,E5x Family Datasheet.pdf

 SAM D5X/ESX 05/May/2020.pdf

 SAM D5X/ESX 08/Jan/2021.pdf

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Recommended Products

					
ATSAMD51J19A-MF Microchip Technology IC MCU 32BIT 512KB FLASH 64QFN	ATSAMD51J19A-MU Microchip Technology IC MCU 32BIT 512KB FLASH 64VQFN	ATSAMD51G19A-MF Microchip Technology IC MCU 32BIT 512KB FLASH 48VQFN	ATSAMD51J18A-AFT Microchip Technology IC MCU 32BIT 256KB FLASH 64TQFP	ATSAMD51J20A-MFT Microchip Technology IC MCU 32BIT 1MB FLASH 64QFN	ATSAMD21J18A-MU Microchip Technology IC MCU 32BIT 256KB FLASH 64QFN
					
ATSAMD51J20A-AF Microchip Technology IC MCU 32BIT 1MB FLASH 64TQFP	ATSAMD21J18A-MUT Microchip Technology IC MCU 32BIT 256KB FLASH 64QFN	ATSAMD51N19A-AU Microchip Technology IC MCU 32BIT 512KB FLASH 100TQFP	ATSAMD51G18A-MU Microchip Technology IC MCU 32BIT 256KB FLASH 48VQFN	ATSAMD21J18A-MU Atmel IC MCU 32BIT 256KB FLASH 64QFN	ATSAMD51J18A-MU Microchip Technology IC MCU 32BIT 256KB FLASH 64QFN
					
ATSAMD51J19A-UUT Microchip Technology IC MCU 32BIT 512KB FLASH 64WLCSP	ATSAMD51J18A-AU-EFP Microchip Technology IC MCU 32BIT 256KB FLASH 64TQFP	ATSAMD51J19A-AUT Microchip Technology IC MCU 32BIT 512KB FLASH 64TQFP	ATSAMD51J20A-MU Microchip Technology IC MCU 32BIT 1MB FLASH 64VQFN	ATSAMD51J18A-AU Microchip Technology IC MCU 32BIT 256KB FLASH 64TQFP	ATSAMD51J19A-AU Microchip Technology IC MCU 32BIT 512KB 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

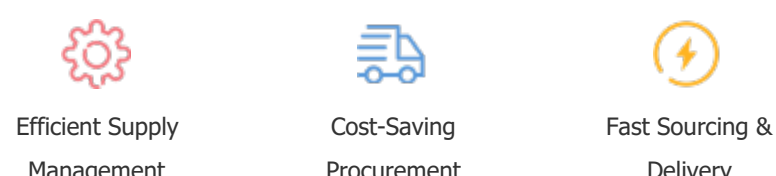
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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