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See specifications for product details.



ATSAME51N19A-AF

Manufacturer Part Number	ATSAME51N19A-AF
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAME51N19A-AF
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 512KB FLASH 100TQFP
Package	100-TQFP
Data sheet	SAM D5x,E5x Family Datasheet.pdf SAM D5x,E5x Family Datasheet.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAME51N19A-AF - Microchip Technology.New Original in Stock. Download Linear Technology ATSAME51N19A-AF datasheet/specifications on AllelcoElec.com.
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Specifications

ATSAME51N19A-AF Tech Specifications
ATSAME51N19A-AF - 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 ~ 125°C (TA)
Supplier Device Package	100-TQFP (14x14)	Number of I/O	81
Speed	120MHz	Mounting Type	Surface Mount
Series	Automotive, AEC-Q100, SAM E51	EEPROM Size	-
RAM Size	192K x 8	Data Converters	A/D 28x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M4F
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB
Package / Case	100-TQFP	Base Product Number	ATSAME51
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAME51N19A-AF

Product Attribute				
Part Number	ATSAME51N19A-AF	ATSAME53J20A-MU	ATSAME51J18A-AUT	ATSAME53J19A-AUT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Package / Case	100-TQFP	64-VFQFN Exposed Pad	64-TQFP	64-TQFP
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 28x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b
Package	Tray	Tray	Tape & Reel (TR)	Tape & Reel (TR)
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.63V	1.71V ~ 3.63V	1.71V ~ 3.63V	1.71V ~ 3.63V
Program Memory Size	512KB (512K x 8)	1MB (1M x 8)	256KB (256K x 8)	512KB (512K x 8)
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
RAM Size	192K x 8	256K x 8	128K x 8	192K x 8
Peripherals	Brown-out Detect/Reset, DMA, I ² S, POR, PWM	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I ² S, POR, PWM	Brown-out Detect/Reset, DMA, I ² S, POR, PWM, WDT
Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB	EBI/EMI, Ethernet, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB	CANbus, EBI/EMI, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB	EBI/EMI, Ethernet, I ² C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB
Base Product Number	ATSAME51	ATSAME53	ATSAME51	ATSAME53
Core Processor	ARM® Cortex®-M4F	ARM® Cortex®-M4F	ARM® Cortex®-M4F	ARM® Cortex®-M4F
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	Automotive, AEC-Q100, SAM E51	SAM E53	SAM E51	SAM E53
Oscillator Type	Internal	Internal	Internal	Internal
Supplier Device Package	100-TQFP (14x14)	64-VQFN (9x9)	64-TQFP (10x10)	64-TQFP (10x10)
Speed	120MHz	120MHz	120MHz	120MHz
EEPROM Size	-	-	-	-
Number of I/O	81	51	51	51
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core

ATSAME51N19A-AF Datasheet PDF

Download ATSAME51N19A-AF pdf datasheets and Microchip Technology documentation for ATSAME51N19A-AF - Microchip Technology.

Datasheets

[SAM D5x,E5x Family Datasheet.pdf](#)

PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

HTML Datasheet

SAM D5x,E5x Family Datasheet.pdf

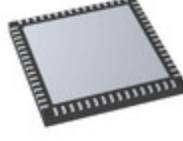











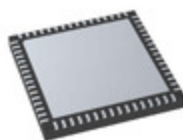
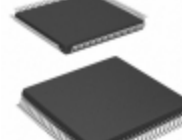
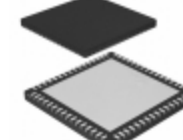
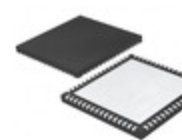
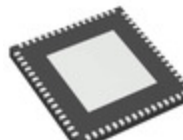

PCN Design/Specification

SAM D5X/E5X 05/May/2020.pdf

SAM D5X/E5X 08/Jan/2021.pdf

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Recommended Products

					
ATSAME53J20A-MU Microchip Technology IC MCU 32BIT 1MB FLASH 64VQFN	ATSAME51J18A-AUT Microchip Technology IC MCU 32BIT 256KB FLASH 64TQFP	ATSAME53J19A-AUT Microchip Technology IC MCU 32BIT 512KB FLASH 64TQFP	ATSAME51J20A-AUT Microchip Technology IC MCU 32BIT 1MB FLASH 64TQFP	ATSAME51J20A-AZ Atmel (Microchip Technology)	ATSAME53J18A-AU Microchip Technology IC MCU 32BIT 256KB FLASH 64TQFP
					
ATSAME51J19A-AU Microchip Technology IC MCU 32BIT 512KB FLASH 64TQFP	ATSAME51N20A-AUT Microchip Technology IC MCU 32BIT 1MB FLASH 100TQFP	ATSAME53J20A-AU Microchip Technology IC MCU 32BIT 1MB FLASH 64TQFP	ATSAME51J19A-AU-EFP Microchip Technology IC MCU 32BIT 512KB FLASH 64TQFP	ATSAME53J18A-AZT Atmel (Microchip Technology)	ATSAME53J20A-MUT Microchip Technology IC MCU 32BIT 1MB FLASH 64VQFN
					
ATSAME51J19A-MU Microchip Technology IC MCU 32BIT 512KB FLASH 64VQFN	ATSAME51N20A-AU Microchip Technology IC MCU 32BIT 1MB FLASH 100TQFP	ATSAME53J19A-MFT Microchip Technology IC MCU 32BIT 512KB FLASH 64QFN	ATSAME51J20A-MUT Microchip Technology IC MCU 32BIT 1MB FLASH 64VQFN	ATSAME51J18A-MU-EFP Microchip Technology IC MCU 32BIT 256KB FLASH 64VQFN	ATSAME51N20A-AZ Micrel / Microchip Technology

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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