

Image may be representation.
See specifications for product details.



ATSAMC21N18A-AN

Manufacturer Part Number	ATSAMC21N18A-AN
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAMC21N18A-AN
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 256KB FLASH 100TQFP
Package	100-TQFP
Data sheet	SAM C20,C21 Complete.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAMC21N18A-AN - Microchip Technology. New Original in Stock. Download Linear Technology ATSAMC21N18A-AN datasheet/specifications on AllelcoElec.com. Request a quote for ATSAMC21N18A-AN, please send us email: info@allelco.com

Specifications

ATSAMC21N18A-AN Tech Specifications
ATSAMC21N18A-AN - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	100-TQFP (14x14)	Number of I/O	84
Speed	48MHz	Mounting Type	Surface Mount
Series	SAM C21, Functional Safety (FuSa)	EEPROM Size	-
RAM Size	32K x 8	Data Converters	A/D 20x12b, 3x16b; D/A 1x10b
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, POR, WDT	Connectivity	CANbus, I²C, LINbus, SPI, UART/USART
Package / Case	100-TQFP	Base Product Number	ATSAMC21
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMC21N18A-AN

Product Attribute				
Part Number	ATSAMC21N18A-AN	ATSAMC21J18A-AUT	ATSAMC21J18A-MUT	ATSAMD09C13A-SSUT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Data Converters	A/D 20x12b, 3x16b; D/A 1x10b	A/D 20x12b, 3x16b; D/A 1x10b	A/D 20x12b, 3x16b; D/A 1x10b	A/D 5x12b
Package	Tray	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Supplier Device Package	100-TQFP (14x14)	64-TQFP (10x10)	64-QFN (9x9)	14-SOIC
Number of I/O	84	52	52	12
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Speed	48MHz	48MHz	48MHz	48MHz
EEPROM Size	-	-	-	-
Series	SAM C21, Functional Safety (FuSa)	SAM C21, Functional Safety (FuSa)	SAM C21, Functional Safety (FuSa)	SAM D09C
Oscillator Type	Internal	Internal	Internal	Internal
RAM Size	32K x 8	32K x 8	32K x 8	4K x 8
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
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	1.62V ~ 3.63V
Program Memory Size	256KB (256K x 8)	256KB (256K x 8)	256KB (256K x 8)	8KB (8K x 8)
Base Product Number	ATSAMC21	ATSAMC21	ATSAMC21	ATSAMD09
Package / Case	100-TQFP	64-TQFP	64-VFQFN Exposed Pad	14-SOIC (0.154", 3.90mm Width)
Connectivity	CANbus, I²C, LINbus, SPI, UART/USART	CANbus, I²C, LINbus, SPI, UART/USART	CANbus, I²C, LINbus, SPI, UART/USART	I²C, LINbus, SPI, UART/USART
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Peripherals	Brown-out Detect/Reset, DMA, POR, WDT	Brown-out Detect/Reset, DMA, POR, WDT	Brown-out Detect/Reset, DMA, POR, WDT	Brown-out Detect/Reset, DMA, POR, WDT

ATSAMC21N18A-AN Datasheet PDF

Download ATSAMC21N18A-AN pdf datasheets and Microchip Technology documentation for ATSAMC21N18A-AN - Microchip Technology.

Datasheets

SAM C20,C21 Complete.pdf

PCN Design/Specification





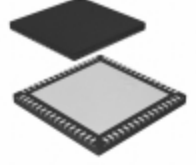


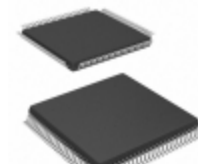





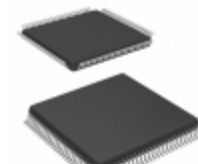


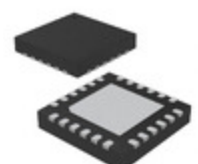


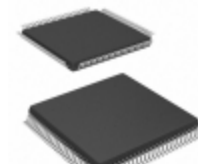




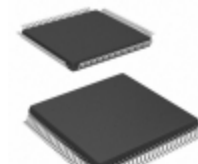

ATSAMC20xxx/ATSAMC21xxx 01/Feb/2022.pdf

Product test flow change 02/May/2022.pdf

 ATSAMC21Nxxx/ATSAMC20Nxxx 06/Jul/2021.pdf

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Recommended Products

		
		
ATSAMC21J17A-AZT Atmel (Microchip Technology)	ATSAMC21J18A-AUT Microchip Technology IC MCU 32BIT 256KB FLASH 64TQFP	ATSAMC21J18A-MUT Microchip Technology IC MCU 32BIT 256KB FLASH 64QFN
		
ATSAMC21J16A-AUT Microchip Technology IC MCU 32BIT 64KB FLASH 64TQFP	ATSAMC21N17A-ANT Microchip Technology IC MCU 32BIT 128KB FLASH 100TQFP	ATSAMC21N18A-AZ Microchip Technology IC MCU 32BIT 16KB FLASH 1450IC
		
		
ATSAMC21J18A-AZT Atmel (Microchip Technology)	ATSAMC21N18A-AZ Atmel (Microchip Technology)	ATSAMC21N18A-ANT Microchip Technology IC MCU 32BIT 256KB FLASH 100TQFP
		
		
ATSAMC21J18A-AZT Atmel (Microchip Technology)	ATSAMC21N18A-AZ Atmel (Microchip Technology)	ATSAMC21J17A-AUT Microchip Technology IC MCU 32BIT 128KB FLASH 64QFN
		
		
ATSAMC21J18A-AZT Atmel (Microchip Technology)	ATSAMC21N18A-AZ Atmel (Microchip Technology)	ATSAMC21J17A-AUT Microchip Technology IC MCU 32BIT 8KB FLASH 1450IC

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.

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The payment method can be chosen from the methods shown below:
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