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See specifications for product details.



ATSAMS70Q21A-ANT

Manufacturer Part Number	ATSAMS70Q21A-ANT
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAMS70Q21A-ANT
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 2MB FLASH 144LQFP
Package	144-LQFP
Data sheet	SAM E70/S70/V70/V71.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAMS70Q21A-ANT - Microchip Technology. New Original in Stock. Download Linear Technology ATSAMS70Q21A-ANT datasheet/specifications on AllelcoElec.com. Request a quote for ATSAMS70Q21A-ANT, please send us email: info@allelco.com

Specifications

ATSAMS70Q21A-ANT Tech Specifications
ATSAMS70Q21A-ANT - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.08V ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	114
Speed	300MHz	Mounting Type	Surface Mount
Series	SAM S70	EEPROM Size	-
RAM Size	384K x 8	Data Converters	A/D 24x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	2MB (2M x 8)	Core Processor	ARM® Cortex®-M7
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Connectivity	EBI/EMI, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB
Package / Case	144-LQFP	Base Product Number	ATSAMS70
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMS70Q21A-ANT

Product Attribute				
Part Number	ATSAMS70Q21A-ANT	ATSAMS70N21A-CFN	ATSAMS70N21A-CN	ATSAMS70N20A-CFN
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Supplier Device Package	144-LQFP (20x20)	100-VFBGA (7x7)	100-TFBGA (9x9)	100-VFBGA (7x7)
EEPROM Size	-	-	-	-
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Package	Tape & Reel (TR)	Tray	Tray	Tray
Series	SAM S70	SAM S70	SAM S70	SAM S70
Program Memory Size	2MB (2M x 8)	2MB (2M x 8)	2MB (2M x 8)	1MB (1M x 8)
Voltage - Supply (Vcc/Vdd)	1.08V ~ 3.6V	1.08V ~ 3.6V	1.08V ~ 3.6V	1.08V ~ 3.6V
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
RAM Size	384K x 8	384K x 8	384K x 8	384K x 8
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
Oscillator Type	Internal	Internal	Internal	Internal
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	ATSAMS70	ATSAMS70	ATSAMS70	ATSAMS70
Number of I/O	114	75	75	75
Connectivity	EBI/EMI, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB	I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB	I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB	I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB
Data Converters	A/D 24x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b
Speed	300MHz	300MHz	300MHz	300MHz
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	144-LQFP	100-VFBGA	100-TFBGA	100-VFBGA

ATSAMS70Q21A-ANT Datasheet PDF

Download ATSAMS70Q21A-ANT pdf datasheets and Microchip Technology documentation for ATSAMS70Q21A-ANT - Microchip Technology.

Datasheets

SAM E70/S70/V70/V71.pdf

PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

Boxes 07/Dec/2016.pdf

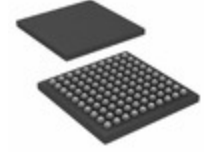

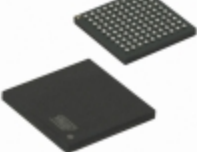
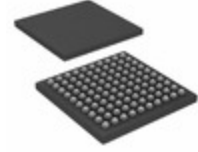

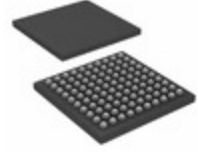

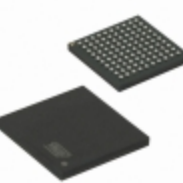

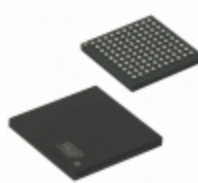








PCN Design/Specification

Datasheet Update 12/Nov/2021.pdf

SAM E70/S70/V70/V71 28/Dec/2020.pdf

Customers Also Interested in

Recommended Products

 ATSAMS70N21A-CFN Microchip Technology IC MCU 32BIT 2MB FLASH 100VFBGA	 ATSAMR35J18BT-I/7JX Microchip Technology IC RF TXRX+MCU 802.15.4 64TFBGA	 ATSAMS70N21A-CN Microchip Technology IC MCU 32BIT 2MB FLASH 100TFBGA	 ATSAMS70N20A-CFN Microchip Technology IC MCU 32BIT 1MB FLASH 100VFBGA	 ATSAMS70Q20 Atmel (Microchip Technology)	 ATSAMS70N20A-CFNT Microchip Technology IC MCU 32BIT 1MB FLASH 100VFBGA
 ATSAMV71N19B-AABT Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	 ATSAMV71N21B-CBT Microchip Technology IC MCU 32BIT 2MB FLASH 100TFBGA	 ATSAMV71Q21B-AAB Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP	 ATSAMV71N20B-CB Microchip Technology IC MCU 32BIT 1MB FLASH 100TFBGA	 ATSAMS70Q21A-AN Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP	 ATSAMS70N19B-AN Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP
 ATSAMV71N20B-AAB Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	 ATSAMS70N20A-AN Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	 ATSAMV71N19B-AAB Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	 ATSAMS70N20A-ANT Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	 ATSAMV70N20B-AAB Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	 ATSAMV70J20B-ANT Atmel (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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