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See specifications for product details.



ATSAME70Q21B-CN

Manufacturer Part Number	ATSAME70Q21B-CN
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAME70Q21B-CN
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 2MB FLASH 144LFBGA
Package	144-LFBGA
Data sheet	SAM E70/S70/V70/V71.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAME70Q21B-CN - Microchip Technology. New Original in Stock. Download Linear Technology ATSAME70Q21B-CN datasheet/specifications on AllelcoElec.com. Request a quote for ATSAME70Q21B-CN, please send us email: info@allelco.com

Specifications

ATSAME70Q21B-CN Tech Specifications
ATSAME70Q21B-CN - 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 ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	144-LFBGA (10x10)	Number of I/O	114
Speed	300MHz	Mounting Type	Surface Mount
Series	SAM E70	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	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB
Package / Case	144-LFBGA	Base Product Number	ATSAME70
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAME70Q21B-CN

Product Attribute				
Part Number	ATSAME70Q21B-CN	ATSAME70Q20A-CNT	ATSAME70Q21A-ANT	ATSAME70Q20B-AN
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Connectivity	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Oscillator Type	Internal	Internal	Internal	Internal
Data Converters	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b
RAM Size	384K x 8	384K x 8	384K x 8	384K x 8
Supplier Device Package	144-LFBGA (10x10)	144-LFBGA (10x10)	144-LQFP (20x20)	144-LQFP (20x20)
Base Product Number	ATSAME70	ATSAME70	ATSAME70	ATSAME70
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Size	2MB (2M x 8)	1MB (1M x 8)	2MB (2M x 8)	1MB (1M x 8)
Package	Tray	Tape & Reel (TR)	Tape & Reel (TR)	Tray
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7
Series	SAM E70	SAM E70	SAM E70	SAM E70
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
Number of I/O	114	114	114	114
EEPROM Size	-	-	-	-
Speed	300MHz	300MHz	300MHz	300MHz
Package / Case	144-LFBGA	144-LFBGA	144-LQFP	144-LQFP

ATSAME70Q21B-CN Datasheet PDF

Download ATSAME70Q21B-CN pdf datasheets and Microchip Technology documentation for ATSAME70Q21B-CN - Microchip Technology.

Datasheets


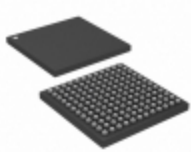
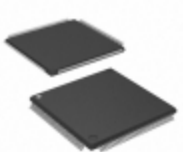




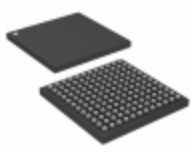
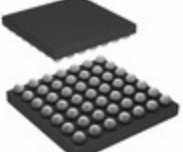
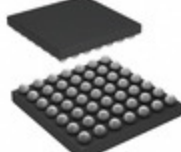

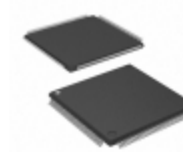
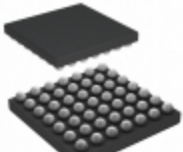
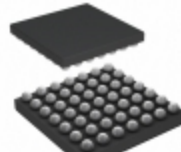
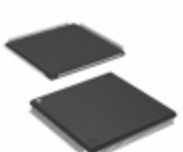
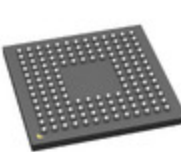
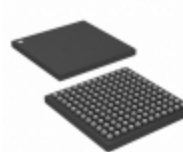
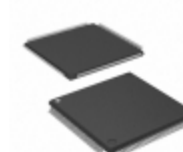
SAM E70/S70/V70/V71.pdf

PCN Packaging

PCN Design/Specification

Customers Also Interested in

Recommended Products

					
ATSAMG53G19A-UUT-101 Atmel (Microchip Technology)	ATSAME70Q20A-CNT Microchip Technology IC MCU 32BIT 1MB FLASH 144LFBGA	ATSAME70Q21A-ANT Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP	ATSAME70Q20B-AN Microchip Technology IC MCU 32BIT 1MB FLASH 144LQFP	ATSAME70Q21A-AN Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP	ATSAMG53G19B-UUT-ES Atmel (Microchip Technology)
					
ATSAMG54G19A-UUT Atmel (Microchip Technology)	ATSAME70Q21A-CNT Microchip Technology IC MCU 32BIT 2MB FLASH 144LFBGA	ATSAMG53G19A-UUT Microchip Technology IC MCU 32BIT 512KB FLASH 49WLCSP	ATSAMG51G18A-UUT Microchip Technology IC MCU 32BIT 256KB FLASH 49WLCSP	ATSAMG51G18A-UUT Atmel IC MCU 32BIT 256KB FLASH 49WLCSP	ATSAME70Q20A-ANT Microchip Technology IC MCU 32BIT 1MB FLASH 144LQFP
					
ATSAMG54G19B-UUT Microchip Technology IC MCU 32BIT 512KB FLASH 49WLCSP	ATSAMG55G19A-UUT Microchip Technology IC MCU 32BIT 512KB FLASH 49WLCSP	ATSAME70Q21B-ANT Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP	ATSAME70Q21B-CFN Microchip Technology IC MCU 32BIT 2MB FLASH 144LFBGA	ATSAME70Q21A-CN Microchip Technology IC MCU 32BIT 2MB FLASH 144LFBGA	ATSAME70Q21B-AN Microchip Technology IC MCU 32BIT 2MB FLASH 144LQFP

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 -

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

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