



ATSAME70N20A-AN

Manufacturer Part Number	ATSAME70N20A-AN
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAME70N20A-AN
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 1MB FLASH 100LQFP
Package	100-LQFP
Data sheet	SAM E70/S70/V70/V71.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAME70N20A-AN - Microchip Technology. New Original in Stock. Download Linear Technology ATSAME70N20A-AN datasheet/specifications on AllelcoElec.com.
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Specifications

ATSAME70N20A-AN Tech Specifications
ATSAME70N20A-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)	1.62V ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	75
Speed	300MHz	Mounting Type	Surface Mount
Series	SAM E70	EEPROM Size	-
RAM Size	384K x 8	Data Converters	A/D 10x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	1MB (1M x 8)	Core Processor	ARM® Cortex®-M7
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Connectivity	CANbus, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB
Package / Case	100-LQFP	Base Product Number	ATSAME70
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAME70N20A-AN

Product Attribute				
Part Number	ATSAME70N20A-AN	ATSAME70Q19A-AN	ATSAME70N20A-CN	ATSAME54P20A-AUT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Package / Case	100-LQFP	144-LQFP	100-TFBGA	128-TQFP
EEPROM Size	-	-	-	-
Package	Tray	Tray	Tray	Tape & Reel (TR)
Data Converters	A/D 10x12b; D/A 2x12b	A/D 24x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b	A/D 32x12b; D/A 2x12b
Connectivity	CANbus, 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, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB	CANbus, EBI/EMI, Ethernet, I²C, IrDA, LINbus, MMC/SD, QSPI, SPI, UART/USART, USB
Oscillator Type	Internal	Internal	Internal	Internal
Base Product Number	ATSAME70	ATSAME70	ATSAME70	ATSAME54
Supplier Device Package	100-LQFP (14x14)	144-LQFP (20x20)	100-TFBGA (9x9)	128-TQFP (14x14)
Program Memory Size	1MB (1M x 8)	512KB (512K x 8)	1MB (1M x 8)	1MB (1M x 8)
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)
Number of I/O	75	114	75	99
RAM Size	384K x 8	256K x 8	384K x 8	256K x 8
Core Processor	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M7	ARM® Cortex®-M4F
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
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.71V ~ 3.63V
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Series	SAM E70	SAM E70	SAM E70	SAM E54
Speed	300MHz	300MHz	300MHz	120MHz
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

ATSAME70N20A-AN Datasheet PDF

Download ATSAME70N20A-AN pdf datasheets and Microchip Technology documentation for ATSAME70N20A-AN - Microchip Technology.

Datasheets

SAM E70/S70/V70/V71.pdf

PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

Boxes 07/Dec/2016.pdf



Datasheet Update 12/Nov/2021.pdf



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

Customers Also Interested in

Recommended Products

ATSAME70Q19A-AN Microchip Technology IC MCU 32BIT 512KB FLASH 144LQFP	ATSAME70N20A-CN Microchip Technology IC MCU 32BIT 1MB FLASH 100TFBGA	ATSAME54P20A-AUT Microchip Technology IC MCU 32BIT 1MB FLASH 128TQFP	ATSAME70N19B-AN Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP	ATSAME70N21B-CN Microchip Technology IC MCU 32BIT 2MB FLASH 100TFBGA	ATSAME70Q19B-ANT Microchip Technology IC MCU 32BIT 512KB FLASH 144LQFP
ATSAME70N19A-CN Microchip Technology IC MCU 32BIT 512KB FLSH 100TFBGA	ATSAME54P19A-AZ Atmel (Microchip Technology)	ATSAME70J20A-AN Microchip Technology IC MCU 32BIT 1MB FLASH 64LQFP	ATSAME54P20A-AU Microchip Technology IC MCU 32BIT 1MB FLASH 128TQFP	ATSAME70N21B-AN Microchip Technology IC MCU 32BIT 2MB FLASH 100LQFP	ATSAME54P19A-CTFT Microchip Technology IC MCU 32BIT 512KB FLSH 120TFBGA
ATSAME70J21B-AN Microchip Technology IC MCU 32BIT 2MB FLASH 64LQFP	ATSAME70N21A-CN Microchip Technology IC MCU 32BIT 2MB FLASH 100TFBGA	ATSAME54P20A-AU-EFP Microchip Technology IC MCU 32BIT 1MB FLASH 128TQFP	ATSAME70Q19B-CFN Microchip Technology IC MCU 32BIT 512KB FLSH 144LFBGA	ATSAME70Q20A-ANT Microchip Technology IC MCU 32BIT 1MB FLASH 144LQFP	ATSAME70Q19B-AN Microchip Technology IC MCU 32BIT 512KB 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.



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