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See specifications for product details.



ATSAMHA1G16A-MBT-BVAO

Manufacturer Part Number	ATSAMHA1G16A-MBT-BVAO
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAMHA1G16A-MBT-BVAO
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 64KB FLASH 48VQFN
Package	48-VFQFN Exposed Pad
Data sheet	ATSAMHAXGxxA.pdf ATSAMHAXGxxA.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAMHA1G16A-MBT-BVAO - Microchip Technology. New Original in Stock. Download Linear Technology ATSAMHA1G16A-MBT-BVAO datasheet/specifications on AllelcoElec.com.

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Specifications

ATSAMHA1G16A-MBT-BVAO Tech Specifications

ATSAMHA1G16A-MBT-BVAO - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	0V ~ 3.8V	Operating Temperature	-40°C ~ 105°C (TC)
Supplier Device Package	48-VQFN (7x7)	Number of I/O	32
Speed	48MHz	Mounting Type	Surface Mount, Wettable Flank
Series	ATSAMHA1G16A-MBT-BVAO, Functional Safety (FuSa)	EEPROM Size	2K x 8
RAM Size	8K x 8	Data Converters	A/D 13x12b; D/A 1x10b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M0+
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Connectivity	I²C, LINbus SBC, SPI, UART/USART
Package / Case	48-VFQFN Exposed Pad	Base Product Number	ATSAMHA1
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMHA1G16A-MBT-BVAO

Product Attribute				
Part Number	ATSAMHA1G16A-MBT-BVAO	ATSAMHA1E14A-MBT-BVAO	ATSAML10E15A-MF	ATSAMG55J19B-AUT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Series	ATSAMHA1G16A-MBT-BVAO, Functional Safety (FuSa)	Automotive, AEC-Q100, SAM HA1, Functional Safety (FuSa)	SAM L10	SAM G55
Supplier Device Package	48-VQFN (7x7)	32-VQFN (5x5)	32-VQFN (5x5)	64-LQFP (10x10)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Operating Temperature	-40°C ~ 105°C (TC)	-40°C ~ 105°C (TC)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount, Wettable Flank	Surface Mount, Wettable Flank	Surface Mount	Surface Mount
Base Product Number	ATSAMHA1	ATSAMHA1	ATSAML10	ATSAMG55
Voltage - Supply (Vcc/Vdd)	0V ~ 3.8V	0V ~ 3.8V	1.62V ~ 3.63V	1.62V ~ 3.6V
Connectivity	I²C, LINbus SBC, SPI, UART/USART	I²C, LINbus SBC, SPI, UART/USART	I²C, LINbus, SPI, UART/USART	I²C, SPI, UART/USART, USB
Oscillator Type	Internal	Internal	Internal	Internal
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Tape & Reel (TR)
Program Memory Size	64KB (64K x 8)	16KB (16K x 8)	32KB (32K x 8)	512KB (512K x 8)
Number of I/O	32	19	25	48
EEPROM Size	2K x 8	512 x 8	2K x 8	-
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	DMA, I²S, POR, PWM, WDT
Speed	48MHz	48MHz	32MHz	120MHz
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M23	ARM® Cortex®-M4
RAM Size	8K x 8	4K x 8	8K x 8	176K x 8
Package / Case	48-VFQFN Exposed Pad	32-VFQFN Exposed Pad	32-VFQFN Exposed Pad	64-LQFP
Data Converters	A/D 13x12b; D/A 1x10b	A/D 6x12b; D/A 1x10b	A/D 10x12b; D/A 1x10b	A/D 8x12b

ATSAMHA1G16A-MBT-BVAO Datasheet PDF

Download ATSAMHA1G16A-MBT-BVAO pdf datasheets and Microchip Technology documentation for ATSAMHA1G16A-MBT-BVAO - Microchip Technology.

Datasheets

ATSAMHAXGxxA.pdf

PCN Obsolescence/ EOL

ATSAMHA1G1YYY 04/Apr/2018.pdf

PCN Design/Specification

ATSAMHA1GxxA 23/Mar/2023.pdf

HTML Datasheet

ATSAMHAXGxxA.pdf

PCN Manufacturer Information








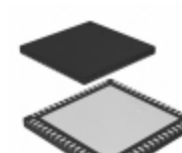
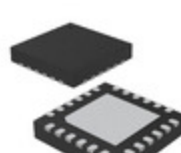









ATSAMHAXGXXA 24/Aug/2021.pdf

PCN Assembly/Origin

Test Site 16/Dec/2021.pdf

Customers Also Interested in

Recommended Products

					
ATSAMHA1E14A-MBT-BVAO Microchip Technology IC MCU 32BIT 16KB FLASH 32VQFN	ATSAMHA1G16R-MBT-BVAO Atmel (Microchip Technology)	ATSAML10E15A-MF Microchip Technology IC MCU 32BIT 32KB FLASH 32VQFN	ATSAMHA0E16A-MZT-B Atmel (Microchip Technology)	ATSAMG55J19B-AUT Microchip Technology IC MCU 32BIT 512KB FLASH 64LQFP	ATSAML10E16A-AUT Microchip Technology IC MCU 32BIT 64KB FLASH 32TQFP
					
ATSAML10E15A-MUT Microchip Technology IC MCU 32BIT 32KB FLASH 32VQFN	ATSAMG55J19B-MU Microchip Technology IC MCU 32BIT 512KB FLASH 64QFN	ATSAML10D16A-MU Microchip Technology IC MCU 32BIT 64KB FLASH 24VQFN	ATSAMHA1E15A-MBT-BVAO Microchip Technology IC MCU 32BIT 32KB FLASH 32VQFN	ATSAML10E16A-F Atmel (Microchip Technology)	ATSAML10E14A-MF Microchip Technology IC MCU 32BIT 16KB FLASH 32VQFN
					
ATSAML10E16A-AFT Microchip Technology IC MCU 32BIT 64KB FLASH 32TQFP	ATSAMHA1G16A Atmel (Microchip Technology)	ATSAMHA1E16A Atmel (Microchip Technology)	ATSAMHA1G16A-MBT Atmel (Microchip Technology)	ATSAML10E16A-AU Microchip Technology IC MCU 32BIT 64KB FLASH 32TQFP	ATSAMHA1E15A-MBT-BVA 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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