

Image may be representation.
See specifications for product details.



ATSAMD20G16B-AUT

Manufacturer Part Number	ATSAMD20G16B-AUT
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAMD20G16B-AUT
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 64KB FLASH 48TQFP
Package	48-TQFP
Data sheet	SAM D20 Family Complete Datasheet.pdf SAM D20(E,G,J) Summary.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAMD20G16B-AUT - Microchip Technology.New Original in Stock. Download Linear Technology ATSAMD20G16B-AUT datasheet/specifications on AllelcoElec.com. Request a quote for ATSAMD20G16B-AUT, please send us email: info@allelco.com

Specifications

ATSAMD20G16B-AUT Tech Specifications
ATSAMD20G16B-AUT - 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 ~ 85°C (TA)
Supplier Device Package	48-TQFP (7x7)	Number of I/O	38
Speed	48MHz	Mounting Type	Surface Mount
Series	SAM D20G	EEPROM Size	-
RAM Size	8K x 8	Data Converters	A/D 14x12b; 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, POR, WDT	Connectivity	I²C, SPI, UART/USART
Package / Case	48-TQFP	Base Product Number	ATSAMD20
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMD20G16B-AUT

Product Attribute				
Part Number	ATSAMD20G16B-AUT	ATSAMD20G17A-UUT	ATSAMD20G16A-MU	ATSAMD20G17A-AUT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Atmel
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Supplier Device Package	48-TQFP (7x7)	45-WLCSP	48-QFN (7x7)	48-TQFP (7x7)
Package / Case	48-TQFP	45-XFBGA, WLCSP	48-VFQFN Exposed Pad	48-TQFP
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Bulk
Peripherals	Brown-out Detect/Reset, POR, WDT	Brown-out Detect/Reset, POR, WDT	Brown-out Detect/Reset, POR, WDT	Brown-out Detect/Reset, POR, WDT
RAM Size	8K x 8	16K x 8	8K x 8	16K x 8
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Base Product Number	ATSAMD20	ATSAMD20	ATSAMD20	ATSAMD20
Data Converters	A/D 14x12b; D/A 1x10b	A/D 14x12b; D/A 1x10b	A/D 14x12b; D/A 1x10b	A/D 14x12b; D/A 1x10b
Oscillator Type	Internal	Internal	Internal	Internal
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	128KB (128K x 8)	64KB (64K x 8)	128KB (128K x 8)
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
Number of I/O	38	38	38	38
EEPROM Size	-	-	-	-
Speed	48MHz	48MHz	48MHz	48MHz
Series	SAM D20G	SAM D20G	SAM D20G	SAM D20G
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART

ATSAMD20G16B-AUT Datasheet PDF

Download ATSAMD20G16B-AUT pdf datasheets and Microchip Technology documentation for ATSAMD20G16B-AUT - Microchip Technology.

Datasheets

[SAM D20 Family Complete Datasheet.pdf](#)

[SAM D20\(E,G,J\) Summary.pdf](#)

PCN Packaging

[MBB/Label Chgs 16/Nov/2018.pdf](#)

PCN Design/Specification



Datasheet Rev 18/Mar/2022.pdf



SAM D20 24/Mar/2021.pdf

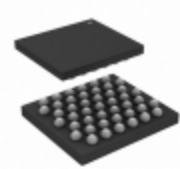
PCN Assembly/Origin



Additional Fabrication Site 30/Jun/2021.pdf

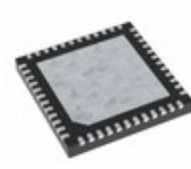
Customers Also Interested in

Recommended Products



ATSAMD20G17A-UUT

Microchip Technology
IC MCU 32BIT 128KB FLASH 45WLCSP



ATSAMD20G16A-MU

Microchip Technology
IC MCU 32BIT 64KB FLASH 48QFN



ATSAMD20G17A-AUT

Atmel
IC MCU 32BIT 128KB FLASH 48TQFP



ATSAMD20G16A-AU

Microchip Technology
IC MCU 32BIT 64KB FLASH 48TQFP



ATSAMD20G17A-AN

Microchip Technology
IC MCU 32BIT 128KB FLASH 48TQFP



ATSAMD20G17A-AU

Microchip Technology
IC MCU 32BIT 128KB FLASH 48TQFP



ATSAMD20G17A-AU

Atmel
IC MCU 32BIT 128KB FLASH 48TQFP



ATSAMD20G17A-ANT

Microchip Technology
IC MCU 32BIT 128KB FLASH 48TQFP



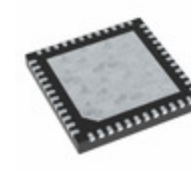
ATSAMD20G16A-MU

Atmel
IC MCU 32BIT 64KB FLASH 48QFN



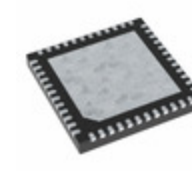
ATSAMD20G16A-AUT

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IC MCU 32BIT 64KB FLASH 48TQFP



ATSAMD20G16A-MUT

Microchip Technology
IC MCU 32BIT 64KB FLASH 48QFN



ATSAMD20G16A-MN

Microchip Technology
IC MCU 32BIT 64KB FLASH 48QFN



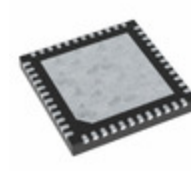
ATSAMD20G15A-AU

Microchip Technology
IC MCU 32BIT 32KB FLASH 48TQFP



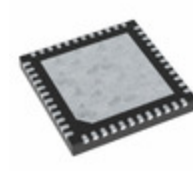
ATSAMD20G17A-AUT

Microchip Technology
IC MCU 32BIT 128KB FLASH 48TQFP



ATSAMD20G15A-MUT

Microchip Technology
IC MCU 32BIT 32KB FLASH 48QFN



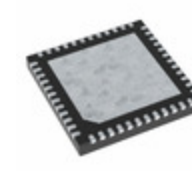
ATSAMD20G16B-MU

Microchip Technology
IC MCU 32BIT 64KB FLASH 48VQFN



ATSAMD20G16B-AU

Microchip Technology
IC MCU 32BIT 64KB FLASH 48TQFP



ATSAMD20G15A-MU

Microchip Technology
IC MCU 32BIT 32KB FLASH 48QFN

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

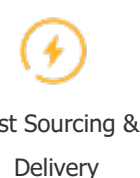
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

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 -



Contact us if you have any questions.



Phone
+00852 9146 4856



Email
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Certifications & Memberships



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