

Image may be representation.  
See specifications for product details.



## ATSAMD20G15A-AU

Manufacturer Part Number	<b>ATSAMD20G15A-AU</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-ATSAMD20G15A-AU
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 32KB FLASH 48TQFP
Package	48-TQFP
Data sheet	<a href="#">SAM D20 Family Complete Datasheet.pdf</a> <a href="#">SAM D20(E,G,J) Summary.pdf</a>
RoHs Status	ROHS3 Compliant

**Get a Quote**

ATSAMD20G15A-AU - Microchip Technology. New Original in Stock. Download Linear Technology ATSAMD20G15A-AU datasheet/specifications on AllelcoElec.com. Request a quote for ATSAMD20G15A-AU, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

ATSAMD20G15A-AU Tech Specifications  
ATSAMD20G15A-AU - 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	4K x 8	Data Converters	A/D 14x12b; D/A 1x10b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	32KB (32K 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	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMD20G15A-AU

Product Attribute				
Part Number	ATSAMD20G15A-AU	ATSAMD20E18A-AN	ATSAMD20G16A-AUT	ATSAMD20G14A-AUT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Number of I/O	38	26	38	38
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
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V	1.62V ~ 3.6V
Oscillator Type	Internal	Internal	Internal	Internal
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
Data Converters	A/D 14x12b; D/A 1x10b	A/D 10x12b; D/A 1x10b	A/D 14x12b; D/A 1x10b	A/D 14x12b; D/A 1x10b
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
RAM Size	4K x 8	32K x 8	8K x 8	2K x 8
Speed	48MHz	48MHz	48MHz	48MHz
EEPROM Size	-	-	-	-
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Supplier Device Package	48-TQFP (7x7)	32-TQFP (7x7)	48-TQFP (7x7)	48-TQFP (7x7)
Program Memory Size	32KB (32K x 8)	256KB (256K x 8)	64KB (64K x 8)	16KB (16K x 8)
Package	Tray	Tray	Tape & Reel (TR)	Tape & Reel (TR)
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Package / Case	48-TQFP	32-TQFP	48-TQFP	48-TQFP
Base Product Number	ATSAMD20	ATSAMD20	ATSAMD20	ATSAMD20
Series	SAM D20G	SAM D20E	SAM D20G	SAM D20G

### ATSAMD20G15A-AU Datasheet PDF

Download ATSAMD20G15A-AU pdf datasheets and Microchip Technology documentation for ATSAMD20G15A-AU - Microchip Technology.

#### Datasheets

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

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

#### PCN Packaging

[Transfer to Microchip/Label/Pkg 5/Sep/2016.pdf](#)

[Boxes 07/Dec/2016.pdf](#)

## PCN Design/Specification



Datasheet Rev 18/Mar/2022.pdf



SAM D20 24/Mar/2021.pdf

## PCN Assembly/Origin



ATSAMD20G1xx 28/Feb/2020.pdf

## Customers Also Interested in

### Recommended Products



#### ATSAMD20E18A-AN

Microchip Technology  
IC MCU 32BIT 256KB FLASH 32TQFP



#### ATSAMD20G16A-AUT

Microchip Technology  
IC MCU 32BIT 64KB FLASH 48TQFP



#### ATSAMD20G14A-AUT

Microchip Technology  
IC MCU 32BIT 16KB FLASH 48TQFP



#### ATSAMD20G16B-AU

Microchip Technology  
IC MCU 32BIT 64KB FLASH 48TQFP



#### ATSAMD20E18A-AU

Microchip Technology  
IC MCU 32BIT 256KB FLASH 32TQFP



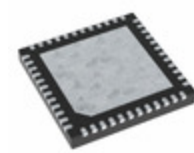
#### ATSAMD20G16A-MUT

Microchip Technology  
IC MCU 32BIT 64KB FLASH 48QFN



#### ATSAMD20E17A-MU

Atmel  
IC MCU 32BIT 128KB FLASH 32QFN



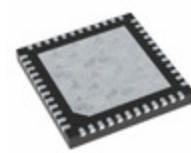
#### ATSAMD20G16A-MU

Microchip Technology  
IC MCU 32BIT 64KB FLASH 48QFN



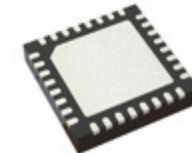
#### ATSAMD20G16A-MU

Atmel  
IC MCU 32BIT 64KB FLASH 48QFN



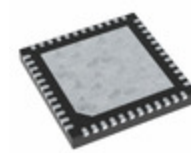
#### ATSAMD20G15A-MU

Microchip Technology  
IC MCU 32BIT 32KB FLASH 48QFN



#### ATSAMD20E18A-MNT

Microchip Technology  
IC MCU 32BIT 256KB FLASH 32QFN



#### ATSAMD20G16A-MN

Microchip Technology  
IC MCU 32BIT 64KB FLASH 48QFN



#### ATSAMD20E18A-MUT

Microchip Technology  
IC MCU 32BIT 256KB FLASH 32VQFN



#### ATSAMD20E17A-MUT

Microchip Technology  
IC MCU 32BIT 128KB FLASH 32QFN



#### ATSAMD20E18A-MU

Microchip Technology  
IC MCU 32BIT 256KB FLASH 32VQFN



#### ATSAMD20G16B-AUT

Microchip Technology  
IC MCU 32BIT 64KB FLASH 48TQFP



#### ATSAMD20G16A-AU

Microchip Technology  
IC MCU 32BIT 64KB FLASH 48TQFP



#### ATSAMD20G15A-MUT

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 -



Efficient Supply  
Management



Cost-Saving  
Procurement



Fast Sourcing &  
Delivery

Contact us if you have any questions.



Phone

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Email

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## Certifications & Memberships



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