

Image may be representation.
See specifications for product details.



ATSAML21E16B-AUT

Manufacturer Part Number **ATSAML21E16B-AUT**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-ATSAML21E16B-AUT**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 32BIT 64KB FLASH 32TQFP**

Package **32-TQFP**

Data sheet [SAM L21\(E,G,J\) Datasheet Summary.pdf](#)

[SAM L21 Family Datasheet.pdf](#)

RoHs Status **ROHS3 Compliant**

Get a Quote

ATSAML21E16B-AUT - Microchip Technology. New Original in Stock. Download Linear Technology ATSAML21E16B-AUT datasheet/specifications on AllelcoElec.com. Request a quote for ATSAML21E16B-AUT, please send us email: info@allelco.com

Specifications

ATSAML21E16B-AUT Tech Specifications

ATSAML21E16B-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 ~ 3.63V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	32-TQFP (7x7)	Number of I/O	25
Speed	48MHz	Mounting Type	Surface Mount
Series	SAM L21E, Functional Safety (FuSa)	EEPROM Size	-
RAM Size	8K x 8	Data Converters	A/D 10x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M0+
Peripherals	DMA, POR, PWM, WDT	Connectivity	I ² C, LINbus, SCI, SPI, UART/USART, USB
Package / Case	32-TQFP	Base Product Number	ATSAML21
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAML21E16B-AUT

Product Attribute				
Part Number	ATSAML21E16B-AUT	ATSAML10E16A-AFT	ATSAML21E18B-MUT	ATSAML21J18B-AUT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Oscillator Type	Internal	Internal	Internal	Internal
Speed	48MHz	32MHz	48MHz	48MHz
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	-	2K x 8	-	-
Connectivity	I ² C, LINbus, SCI, SPI, UART/USART, USB	I ² C, LINbus, SPI, UART/USART	I ² C, LINbus, SCI, SPI, UART/USART, USB	I ² C, LINbus, SCI, SPI, UART/USART, USB
Series	SAM L21E, Functional Safety (FuSa)	SAM L10	SAM L21E, Functional Safety (FuSa)	SAM L21J, Functional Safety (FuSa)
Base Product Number	ATSAML21	ATSAML10	ATSAML21	ATSAML21
Voltage - Supply (Vcc/Vdd)	1.62V ~ 3.63V	1.62V ~ 3.63V	1.62V ~ 3.63V	1.62V ~ 3.63V
Supplier Device Package	32-TQFP (7x7)	32-TQFP (7x7)	32-VQFN (5x5)	64-TQFP (10x10)
Data Converters	A/D 10x12b; D/A 2x12b	A/D 10x12b; D/A 1x10b	A/D 10x12b; D/A 2x12b	A/D 20x12b; D/A 2x12b
Number of I/O	25	25	25	51
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M23	ARM® Cortex®-M0+	ARM® Cortex®-M0+
RAM Size	8K x 8	16K x 8	32K x 8	32K x 8
Peripherals	DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	DMA, POR, PWM, WDT	DMA, POR, PWM, WDT
Package / Case	32-TQFP	32-TQFP	32-VFQFN Exposed Pad	64-TQFP
Program Memory Size	64KB (64K x 8)	64KB (64K x 8)	256KB (256K x 8)	256KB (256K x 8)
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)

ATSAML21E16B-AUT Datasheet PDF

Download ATSAML21E16B-AUT pdf datasheets and Microchip Technology documentation for ATSAML21E16B-AUT - Microchip Technology.

Datasheets



[SAM L21\(E,G,J\) Datasheet Summary.pdf](#)



[SAM L21 Family Datasheet.pdf](#)

PCN Packaging



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



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

PCN Design/Specification



Marking Chgs 11/Jul/2017.pdf



SAM L21 13/Feb/2020.pdf

PCN Assembly/Origin



Assembly 14/Sep/2020.pdf

Errata



SAM L21 Family Errata~.pdf

Customers Also Interested in

Recommended Products



ATSAML10E16A-AFT

Microchip Technology
IC MCU 32BIT 64KB FLASH 32TQFP



ATSAML21E18B-MUT

Microchip Technology
IC MCU 32BIT 256KB FLASH 32QFN



ATSAML21J18B-AUT

Microchip Technology
IC MCU 32BIT 256KB FLASH 64TQFP



ATSAML21E18B-AUT

Microchip Technology
IC MCU 32BIT 256KB FLASH 32TQFP



ATSAML11E15A-MF

Microchip Technology
IC MCU 32BIT 32KB FLASH 32VQFN



ATSAML21E15B-MUT

Microchip Technology
IC MCU 32BIT 32KB FLASH 32QFN



ATSAML21J18B-ANT

Microchip Technology
IC MCU 32BIT 256KB FLASH 64TQFP



ATSAML21J18B-AUT

Atmel
IC MCU 32BIT 256KB FLASH 64TQFP



ATSAML21E17B-MUT

Microchip Technology
IC MCU 32BIT 128KB FLASH 32QFN



ATSAML11E15A-AU

Microchip Technology
IC MCU 32BIT 32KB FLASH 32TQFP



ATSAML10E16A-AU

Microchip Technology
IC MCU 32BIT 64KB FLASH 32TQFP



ATSAML11E14A-MUT

Microchip Technology
IC MCU 32BIT 16KB FLASH 32VQFN



ATSAML21J18A-AU

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ATSAML10E16A-AUT

Microchip Technology
IC MCU 32BIT 64KB FLASH 32TQFP



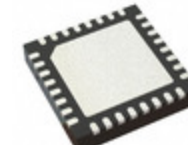
ATSAML10E16A-F

Atmel (Microchip Technology)



ATSAML11E14A-MF

Microchip Technology
IC MCU 32BIT 16KB FLASH 32VQFN



ATSAML21E16B-MUT

Microchip Technology
IC MCU 32BIT 64KB FLASH 32QFN



ATSAML21J17B-AUT

Microchip Technology
IC MCU 32BIT 128KB FLASH 64TQFP

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 Alleco 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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