

Image may be representation.  
See specifications for product details.



## ATSAMR30E18A-MUT

Manufacturer Part Number	<b>ATSAMR30E18A-MUT</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-ATSAMR30E18A-MUT
ECAD Model	Request Free CAD Models
Parts Description	IC RF TXRX+MCU 802.15.4 32VFQFN
Package	32-VFQFN Exposed Pad
Data sheet	<b><a href="#">SAM R30 Summary.pdf</a></b> <b><a href="#">SAM R30 Datasheet.pdf</a></b>
RoHs Status	<b>ROHS3 Compliant</b>

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ATSAMR30E18A-MUT - Microchip Technology.New Original in Stock. Download Linear Technology ATSAMR30E18A-MUT datasheet/specifications on AllelcoElec.com. Request a quote for ATSAMR30E18A-MUT, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

ATSAMR30E18A-MUT Tech Specifications  
ATSAMR30E18A-MUT - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Package	Tape & Reel (TR)
Voltage - Supply	1.8V ~ 3.6V	Operating Temperature	-40°C ~ 85°C
Type	TxRx + MCU	Mounting Type	Surface Mount
Supplier Device Package	32-VQFN (5x5)	Modulation	BPSK, O-QPSK
Series	-	Memory Size	256kB Flash, 40kB SRAM
Serial Interfaces	I <sup>2</sup> C, SPI	GPIO	16
Sensitivity	-110dBm	Frequency	700MHz, 800MHz, 900MHz
RF Family/Standard	802.15.4	Data Rate (Max)	1Mbps
Protocol	-	Current - Transmitting	26.5mA
Power - Output	11dBm	Current - Receiving	9.2mA
Package / Case	32-VFQFN Exposed Pad	Base Product Number	ATSAMR30

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMR30E18A-MUT

Product Attribute				
Part Number	ATSAMR30E18A-MUT	<b>ATSAMR30M18AT-I/RM100</b>	<b>ATSAMR21G18A-MFT</b>	<b>ATSAMR21E19A-MFT</b>
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Power - Output	11dBm	-	4dBm	4dBm
Frequency	700MHz, 800MHz, 900MHz	700MHz, 800MHz, 900MHz	2.4GHz	2.4GHz
Protocol	-	6LoWPAN, Zigbee®	-	-
Series	-	-	SMART™ SAM R21	-
Type	TxRx + MCU	TxRx + MCU	TxRx + MCU	TxRx + MCU
Memory Size	256kB Flash, 40kB SRAM	256kB Flash, 40kB RAM	256kB Flash, 32kB SRAM	768kB Flash, 32kB SRAM
Serial Interfaces	I <sup>2</sup> C, SPI	ADC, I <sup>2</sup> C, USB	I <sup>2</sup> C, SPI, UART, USART, USB	I <sup>2</sup> C, SPI, UART, USART, USB
Package / Case	32-VFQFN Exposed Pad	25-SMD Module	48-VFQFN Exposed Pad	32-VFQFN Exposed Pad
Current - Receiving	9.2mA	-	11.3mA ~ 11.8mA	11.3mA ~ 11.8mA
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Supplier Device Package	32-VQFN (5x5)	Module	48-QFN (7x7)	32-QFN (5x5)
Base Product Number	ATSAMR30	ATSAMR30	ATSAMR21	ATSAMR21
RF Family/Standard	802.15.4	802.15.4	General ISM > 1GHz	General ISM > 1GHz
Current - Transmitting	26.5mA	-	7.2mA ~ 13.8mA	7.2mA ~ 13.8mA
Modulation	BPSK, O-QPSK	-	O-QPSK	O-QPSK
GPIO	16	16	28	16
Voltage - Supply	1.8V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V	2.35V ~ 3.6V
Operating Temperature	-40°C ~ 85°C	-	-40°C ~ 125°C	-40°C ~ 125°C
Data Rate (Max)	1Mbps	-	250kbps	250kbps
Sensitivity	-110dBm	-	-99dBm	-99dBm
Mounting Type	Surface Mount	-	Surface Mount	Surface Mount

### ATSAMR30E18A-MUT Datasheet PDF

Download ATSAMR30E18A-MUT pdf datasheets and Microchip Technology documentation for ATSAMR30E18A-MUT - Microchip Technology.



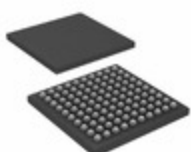

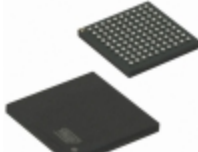
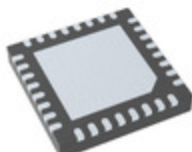
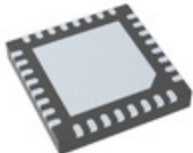
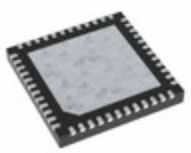
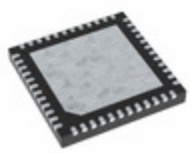

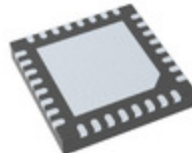

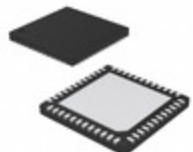
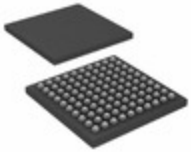
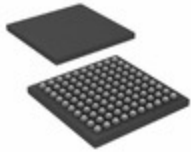

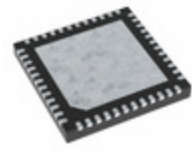
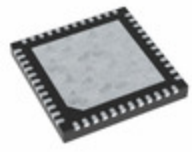
#### Datasheets

[SAM R30 Summary.pdf](#)

[SAM R30 Datasheet.pdf](#)

## Customers Also Interested in

### Recommended Products

					
<b>ATSAMS70N20A-AN</b> Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	<b>ATSAMR30M18AT-I/RM100</b> Microchip Technology R30 MODULE - MCU + SUB-GHZ 802.1	<b>ATSAMS70N20A-CFNT</b> Microchip Technology IC MCU 32BIT 1MB FLASH 100VFBGA	<b>ATSAMR21G18A-MFT</b> Microchip Technology IC RF TXRX+MCU ISM>1GHZ 48VQFN	<b>ATSAMS70N21A-CN</b> Microchip Technology IC MCU 32BIT 2MB FLASH 100TFBGA	<b>ATSAMR21E19A-MFT</b> Microchip Technology IC RF TXRX+MCU ISM>1GHZ 32VQFN
					
<b>ATSAMR21E18A-MU</b> Microchip Technology IC RF TXRX+MCU ISM>1GHZ 32VQFN	<b>ATSAMR21G18A-MF</b> Microchip Technology IC RF TXRX+MCU ISM<1GHZ 48VQFN	<b>ATSAMR21G17A-MU</b> Microchip Technology IC RF TXRX+MCU ISM>1GHZ 48VQFN	<b>ATSAMR35J18BT-I/7JX</b> Microchip Technology IC RF TXRX+MCU 802.15.4 64TFBGA	<b>ATSAMR21E18A-MFT</b> Microchip Technology IC RF TXRX+MCU ISM>1GHZ 32VQFN	<b>ATSAMS70N19B-AN</b> Microchip Technology IC MCU 32BIT 512KB FLASH 100LQFP
					
<b>ATSAMR30G18A-MUT</b> Microchip Technology IC RF TXRX+MCU 802.15.4 48VQFN	<b>ATSAMS70N21A-CFN</b> Microchip Technology IC MCU 32BIT 2MB FLASH 100VFBGA	<b>ATSAMS70N20A-CFN</b> Microchip Technology IC MCU 32BIT 1MB FLASH 100VFBGA	<b>ATSAMS70N20A-ANT</b> Microchip Technology IC MCU 32BIT 1MB FLASH 100LQFP	<b>ATSAMR21G18A-MUT</b> Microchip Technology IC RF TXRX+MCU ISM>1GHZ 48VQFN	<b>ATSAMR21G18A-MU</b> Microchip Technology IC RF TXRX+MCU ISM>1GHZ 48VQFN

## 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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-  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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