

Image may be representation.  
See specifications for product details.



## ATSAMA5D36A-CN

Manufacturer Part Number	<b>ATSAMA5D36A-CN</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-ATSAMA5D36A-CN
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 160KB ROM 324LFBGA
Package	324-LFBGA
Data sheet	<b>SAMA5D3 Brochure.pdf</b> <b>SAMA5D3 Series Summary.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

ATSAMA5D36A-CN - Microchip Technology. New Original in Stock. Download Linear Technology ATSAMA5D36A-CN datasheet/specifications on AllelcoElec.com.  
Request a quote for ATSAMA5D36A-CN, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

ATSAMA5D36A-CN Tech Specifications  
ATSAMA5D36A-CN - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Operating Temperature	-40°C ~ 105°C (TA)
Voltage - I/O	1.2V, 1.8V, 3.3V	Number of Cores/Bus Width	1 Core, 32-Bit
USB	USB 2.0 (3)	Mounting Type	Surface Mount
Supplier Device Package	324-LFBGA (15x15)	Graphics Acceleration	No
Speed	536MHz	Ethernet	10/100/1000Mbps (1)
Series	SAMA5D3	Display & Interface Controllers	LCD, Touchscreen
Security Features	AES, SHA, TDES, TRNG	Core Processor	ARM® Cortex®-A5
SATA	-	Co-Processors/DSP	-
RAM Controllers	LPDDR, LPDDR2, DDR2	Base Product Number	ATSAMA5
Package / Case	324-LFBGA	Additional Interfaces	CAN, I <sup>2</sup> C, MMC/SD/SDIO, SPI, SSC, UART, USART
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMA5D36A-CN

Product Attribute				
Part Number	ATSAMA5D36A-CN	ATSAMA5D36A-CNR	ATSAMA5D42A-CU	ATSAMA5D33A-CUR
Manufacturer	Microchip Technology	Microchip Technology	Atmel	Microchip Technology
Co-Processors/DSP	-	-	Multimedia; NEON™ SIMD	-
Display & Interface Controllers	LCD, Touchscreen	LCD, Touchscreen	LCD, Touchscreen	LCD, Touchscreen
Core Processor	ARM® Cortex®-A5	ARM® Cortex®-A5	ARM® Cortex®-A5	ARM® Cortex®-A5
Package	Tray	Tape & Reel (TR)	Bulk	Tape & Reel (TR)
Voltage - I/O	1.2V, 1.8V, 3.3V	1.2V, 1.8V, 3.3V	1.2V, 1.8V, 3.3V	1.2V, 1.8V, 3.3V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Series	SAMA5D3	SAMA5D3	SAMA5D4	SAMA5D3
Speed	536MHz	536MHz	600MHz	536MHz
Package / Case	324-LFBGA	324-LFBGA	361-TFBGA	324-LFBGA
Supplier Device Package	324-LFBGA (15x15)	324-LFBGA (15x15)	361-TFBGA (16x16)	324-LFBGA (15x15)
Base Product Number	ATSAMA5	ATSAMA5	ATSAMA5D42	ATSAMA5
RAM Controllers	LPDDR, LPDDR2, DDR2	LPDDR, LPDDR2, DDR2	LPDDR, LPDDR2, DDR2	LPDDR, LPDDR2, DDR2
Security Features	AES, SHA, TDES, TRNG	AES, SHA, TDES, TRNG	AES, SHA, TDES, TRNG	AES, SHA, TDES, TRNG
SATA	-	-	-	-
Graphics Acceleration	No	No	Yes	No
USB	USB 2.0 (3)	USB 2.0 (3)	USB 2.0 (3)	USB 2.0 (3)
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit
Additional Interfaces	CAN, I <sup>2</sup> C, MMC/SD/SDIO, SPI, SSC, UART, USART	CAN, I <sup>2</sup> C, MMC/SD/SDIO, SPI, SSC, UART, USART	EBI, I <sup>2</sup> C, MMC/SD/SDIO, SPI, SSC, UART, USART	I <sup>2</sup> C, SPI, SSC, USART
Ethernet	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100Mbps (1)	10/100/1000Mbps (1)

## ATSAMA5D36A-CN Datasheet PDF

Download ATSAMA5D36A-CN pdf datasheets and Microchip Technology documentation for ATSAMA5D36A-CN - Microchip Technology.

### Datasheets

[SAMA5D3 Brochure.pdf](#)

[SAMA5D3 Series Summary.pdf](#)

### PCN Packaging

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

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

## PCN Design/Specification

 Marking Chgs 11/Jul/2017.pdf

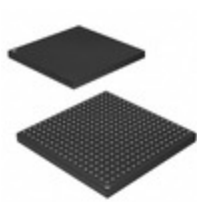
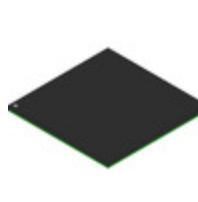
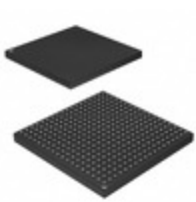

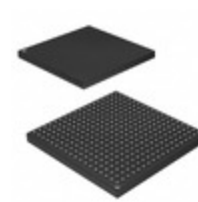
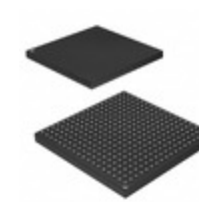
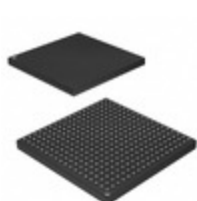
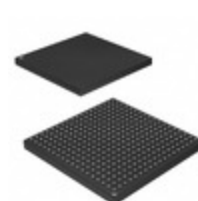
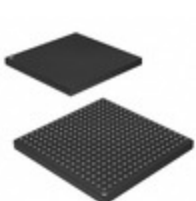

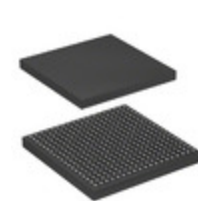
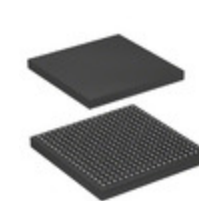

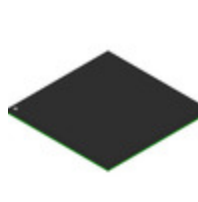
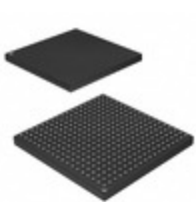
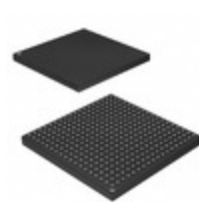


 SAMA5D3 06/Feb/2020.pdf

## PCN Assembly/Origin

 Assembly Site 19/Dec/2022.pdf

## Customers Also Interested in

### Recommended Products

					
<b>ATSAMA5D36A-CNR</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA	<b>ATSAMA5D42A-CU</b> Atmel A5 PROCESSOR, 600MHZ, CMOS, PBGA	<b>ATSAMA5D33A-CUR</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA	<b>ATSAMA5D43B-CUR</b> Microchip Technology BGA GREEN, IND TEMP	<b>ATSAMA5D33A-CU</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA	<b>ATSAMA5D34A-CU</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA
					
<b>ATSAMA5D35A-CU</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA	<b>ATSAMA5D36A-CU</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA	<b>ATSAMA5D31A-CUR</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA	<b>ATSAMA5D31A-CU-ND</b> Atmel (Microchip Technology)	<b>ATSAMA5D44A-CU</b> Microchip Technology IC MCU 32BIT 128KB ROM 361TFBGA	<b>ATSAMA5D42A-CU</b> Microchip Technology IC MCU 32BIT 128KB ROM 361TFBGA
					
<b>ATSAMA5D42B-CUR</b> Microchip Technology BGA GREEN, IND TEMP	<b>ATSAMA5D44A-CU</b> Atmel A5 PROCESSOR, 600MHZ, CMOS, PBGA	<b>ATSAMA5D34A-CUR</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA	<b>ATSAMA5D35A-CUR</b> Microchip Technology IC MCU 32BIT 160KB ROM 324LFBGA	<b>ATSAMA5D31A-CU</b> Atmel RISC MICROPROCESSOR, 32-BIT ARM	<b>ATSAMA5D41A-CUR</b> Microchip Technology IC MCU 32BIT 128KB ROM 289LFBGA

## 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.

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## Certifications & Memberships



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