



ATSAMA5D27B-CU

Manufacturer Part Number	ATSAMA5D27B-CU
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAMA5D27B-CU
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT EXT MEM 289LFBGA
Package	289-LFBGA
Data sheet	SAMA5D2 Series.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

ATSAMA5D27B-CU - Microchip Technology. New Original in Stock. Download Linear Technology ATSAMA5D27B-CU datasheet/specifications on AllelcoElec.com.

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Specifications

ATSAMA5D27B-CU Tech Specifications

ATSAMA5D27B-CU - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Operating Temperature	-40°C ~ 85°C (TA)
Voltage - I/O	3.3V	Number of Cores/Bus Width	1 Core, 32-Bit
USB	USB 2.0 + HSIC	Mounting Type	Surface Mount
Supplier Device Package	289-LFBGA (14x14)	Graphics Acceleration	Yes
Speed	500MHz	Ethernet	10/100Mbps (1)
Series	SAMA5D2	Display & Interface Controllers	Keyboard, LCD, Touchscreen
Security Features	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC	Core Processor	ARM® Cortex®-A5
SATA	-	Co-Processors/DSP	Multimedia; NEON™ MPE
RAM Controllers	LPDDR1, LPDDR2, LPDDR3, DDR2, DDR3, DDR3L, QSPI	Base Product Number	ATSAMA5D27
Package / Case	289-LFBGA	Additional Interfaces	I²C, SMC, SPI, UART, USART, QSPI
Package	Bulk		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology ATSAMA5D27B-CU

Product Attribute	NO PICTURE			
Part Number	ATSAMA5D27B-CU	ATSAMA5D26C-CNR	ATSAMA5D22B-CUR	ATSAMA5D27C-LD2G-CU
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Graphics Acceleration	Yes	Yes	Yes	Yes
SATA	-	-	-	-
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
RAM Controllers	LPDDR1, LPDDR2, LPDDR3, DDR2, DDR3, DDR3L, QSPI	LPDDR1, LPDDR2, LPDDR3, DDR2, DDR3, DDR3L, QSPI	LPDDR1, LPDDR2, LPDDR3, DDR2, DDR3, DDR3L, QSPI	LPDDR1, LPDDR2, LPDDR3, DDR2, DDR3, DDR3L, QSPI
Package / Case	289-LFBGA	289-LFBGA	196-TFBGA, CSBGA	361-TFBGA
Core Processor	ARM® Cortex®-A5	ARM® Cortex®-A5	ARM® Cortex®-A5	ARM® Cortex®-A5
Display & Interface Controllers	Keyboard, LCD, Touchscreen	Keyboard, LCD, Touchscreen	Keyboard, LCD, Touchscreen	Keyboard, LCD, Touchscreen
Voltage - I/O	3.3V	3.3V	3.3V	3.3V
Additional Interfaces	I²C, SMC, SPI, UART, USART, QSPI	I²C, SMC, SPI, UART, USART, QSPI	I²C, SMC, SPI, UART, USART, QSPI	I²C, SMC, SPI, UART, USART, QSPI
Co-Processors/DSP	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE
Security Features	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Series	SAMA5D2	SAMA5D2	SAMA5D2	SAMA5D2
Supplier Device Package	289-LFBGA (14x14)	289-LFBGA (14x14)	196-TFBGA (11x11)	361-TFBGA (16x16)
USB	USB 2.0 + HSIC	USB 2.0 + HSIC	USB 2.0 + HSIC	USB 2.0 + HSIC
Ethernet	10/100Mbps (1)	10/100Mbps (1)	10/100Mbps (1)	10/100Mbps (1)
Package	Bulk	Tape & Reel (TR)	Tape & Reel (TR)	Tray
Speed	500MHz	500MHz	500MHz	500MHz
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit
Base Product Number	ATSAMA5D27	ATSAMA5	ATSAMA5D22	ATSAMA5

ATSAMA5D27B-CU Datasheet PDF

Download ATSAMA5D27B-CU pdf datasheets and Microchip Technology documentation for ATSAMA5D27B-CU - Microchip Technology.

Datasheets

SAMA5D2 Series.pdf

PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

Boxes 07/Dec/2016.pdf

PCN Assembly/Origin

ATSAMA5D2xx 27/Jan/2022.pdf

PCN Obsolescence/ EOL

ATSAMA5Dxx 22/Mar/2018.pdf





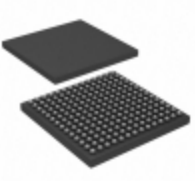
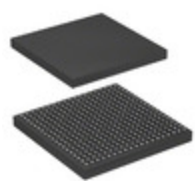



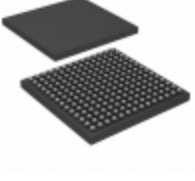
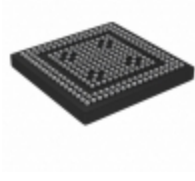
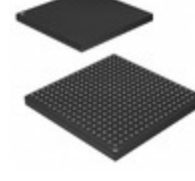




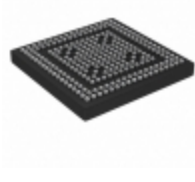







PCN Design/Specification

SAMA5D2 17/Feb/2020.pdf

SAMA5D2 18/Sep/2020.pdf

Customers Also Interested in

Recommended Products

			
			
ATSAMA5D26C-CNR Microchip Technology IC MCU 32BIT EXT MEM 289LFBGA	ATSAMA5D22B-CUR Microchip Technology IC MCU 32BIT EXT MEM 196TFBGA	ATSAMA5D27C-LD2G-CU Microchip Technology CORTEX-A5 MPU 2GBIT LPDDR2 BGA I	ATSAMA5D27C-D1G-CUR Microchip Technology BGA GREEN, IND TEMP,MRLC,1GBIT D
			
ATSAMA5D27C-CNRVAO Microchip Technology BGA GREEN, AUTO GRADE 2 ,MRLC	ATSAMA5D22B-CU Microchip Technology IC MCU 32BIT EXT MEM 196TFBGA	ATSAMA5D24C-CUR Microchip Technology IC MCU 32BIT EXT MEM 256TFBGA	ATSAMA5D27C-D5M-CU Microchip Technology BGA GREEN, IND TEMP,MRLC,512MBIT
			
			
ATSAMA5D27A-CN-ES Atmel (Microchip Technology)	ATSAMA5D26C-CU Microchip Technology IC MCU 32BIT EXT MEM 289LFBGA	ATSAMA5D24B-CU Microchip Technology IC MCU 32BIT EXT MEM 256TFBGA	ATSAMA5D27C-SOM1 Microchip Technology IC MOD CORTEX-A5 500MHZ 1GB 64MB
			
ATSAMA5D27C-D1G-CU Microchip Technology BGA GREEN, IND TEMP,MRLC,1GBIT D	ATSAMA5D27C-CNR Microchip Technology IC MCU 32BIT EXT MEM 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
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Contact us if you have any questions.

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Certifications & Memberships



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