



Image may be representation.
See specifications for product details.



ATSAMA5D22B-CU

Manufacturer Part Number	ATSAMA5D22B-CU
Manufacturer	Microchip Technology
Allelco Part Number	32D-ATSAMA5D22B-CU
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT EXT MEM 196TFBGA
Package	196-TFBGA, CSBGA
Data sheet	SAMA5D2 Series.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

ATSAMA5D22B-CU - Microchip Technology.New Original in Stock. Download Linear Technology ATSAMA5D22B-CU datasheet/specifications on AllelcoElec.com.
Request a quote for ATSAMA5D22B-CU, please send us email: info@allelco.com

Specifications

ATSAMA5D22B-CU Tech Specifications
ATSAMA5D22B-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	196-TFBGA (11x11)	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	ATSAMA5D22
Package / Case	196-TFBGA, CSBGA	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 ATSAMA5D22B-CU

Product Attribute				
Part Number	ATSAMA5D22B-CU	ATSAMA5D26C-CNR	ATSAMA5D22C-CU	ATSAMA5D21C-CU
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
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)
Display & Interface Controllers	Keyboard, LCD, Touchscreen	Keyboard, LCD, Touchscreen	Keyboard, LCD, Touchscreen	Keyboard, LCD, Touchscreen
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
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
Supplier Device Package	196-TFBGA (11x11)	289-LFBGA (14x14)	196-TFBGA (11x11)	196-TFBGA (11x11)
Voltage - I/O	3.3V	3.3V	3.3V	3.3V
Speed	500MHz	500MHz	500MHz	500MHz
Core Processor	ARM® Cortex®-A5	ARM® Cortex®-A5	ARM® Cortex®-A5	ARM® Cortex®-A5
Series	SAMA5D2	SAMA5D2	SAMA5D2	SAMA5D2
Graphics Acceleration	Yes	Yes	Yes	Yes
Package	Bulk	Tape & Reel (TR)	Tray	Tray
Co-Processors/DSP	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit
Ethernet	10/100Mbps (1)	10/100Mbps (1)	10/100Mbps (1)	10/100Mbps (1)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
SATA	-	-	-	-
Base Product Number	ATSAMA5D22	ATSAMA5	ATSAMA5	ATSAMA5
Package / Case	196-TFBGA, CSBGA	289-LFBGA	196-TFBGA, CSBGA	196-TFBGA, CSBGA
USB	USB 2.0 + HSIC	USB 2.0 + HSIC	USB 2.0 + HSIC	USB 2.0 + HSIC

ATSAMA5D22B-CU Datasheet PDF

Download ATSAMA5D22B-CU pdf datasheets and Microchip Technology documentation for ATSAMA5D22B-CU - Microchip Technology.

Datasheets

[SAMA5D2 Series.pdf](#)

PCN Packaging

[PCN Packaging](#)

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

ATSAM9G45C-CU#####	ATSAMA5D26C-CNR Microchip Technology IC MCU 32BIT EXT MEM 289LFBGA	ATSAM9G45C-CU Atmel (Microchip Technology)	ATSAMA5D27-SOM1 Microchip Technology IC MOD CORTEX-A5 500MHZ 1GB 64MB	ATSAMA5D22C-CU Microchip Technology IC MCU 32BIT EXT MEM 196TFBGA	ATSAM9G45-CU#####
ATSAMA5D21C-CU Microchip Technology IC MCU 32BIT EXT MEM 196TFBGA	ATSAMA5D26 Atmel (Microchip Technology)	ATSAM4SD32CA-AUR Microchip Technology IC MCU 32BIT 2MB FLASH 100LQFP	ATSAMA5D225C-D1M-CU Microchip Technology BGA GREEN, IND TEMP,MRLC,128MBIT	ATSAMA5D26C-CU Microchip Technology IC MCU 32BIT EXT MEM 289LFBGA	ATSAM4SD32CA-CU Microchip Technology IC MCU 32BIT 2MB FLASH 100TFBGA
ATSAM4SH4A-UUA-101 Atmel (Microchip Technology)	ATSAM4SD32CA-CU Atmel IC MCU 32BIT 2MB FLASH 100TFBGA	ATSAMA5D24C-CUR Microchip Technology IC MCU 32BIT EXT MEM 256TFBGA	ATSAMA5D24B-CU Microchip Technology IC MCU 32BIT EXT MEM 256TFBGA	ATSAMA5D27B-CU Microchip Technology IC MCU 32BIT EXT MEM 289LFBGA	ATSAMA5D22B-CUR Microchip Technology IC MCU 32BIT EXT MEM 196TFBGA

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.

Phone +00852 9146 4856	Email info@allelco.com
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Certifications & Memberships



View More

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