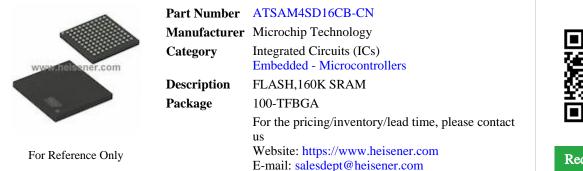


ATSAM4SD16CB-CN

ATSAM4SD16CB-CN Information





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Certified Quality

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



ATSAM4SD16CB-CN Specifications

Manufacturer Microchip Technology Microchip Technology Integrated Circuits (ICs) Embedded - Microcontrollers Embedded - Microcontrollers Package 100-TFBGA Series SAM4S Core Processor ARM® Cortex®-M4 Core Size 32-Bit Speed 120MHz Connectivity EBI/EMI, PC, IrDA, Memory Card, SPI, SSC, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, POR, PWM, WDT Number of I/O 79 Program Memory Size IMB (1M x 8) EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.62 V ~ 3.6 V Data Converters A/D 16x12b, D/A 2x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 100-TFBGA			
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage100-TFBGASeriesSAM4SCore ProcessorARM® Cortex®-M4Core Size32-BitSpeed120MHzConnectivityEBI/EMI, PC, IrDA, Memory Card, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O79Program Memory SizeIMB (1M x 8)EEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Manufacturer Part Number	ATSAM4SD16CB-CN	
IndextedEmbedded - MicrocontrollersPackage100-TFBGASeriesSAM4SCore ProcessorARM® Cortex®-M4Core Size32-BitSpeed120MHzConnectivityEBI/EMI, PC, IrDA, Memory Card, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O79Program Memory SizeIMB (IM x 8)PerpOM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Manufacturer	Microchip Technology	
Package100-TFBGASeriesSAM4SCore ProcessorARM® Cortex®-M4Core Size32-BitSpeed120MHzConcetivityEBI/EMI, PC, IrDA, Memory Card, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O79Program Memory SizeIMB (1M x 8)EEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vd)1.62 V ~ 3.6 VData ConvertersA/D 16112b, D/A 2x12bOscillator TypeInternalOperating Temperature-Prakage / Case100-TFBGA (9x9)Supplier Device Package100-TFBGA (9x9)	Category	Integrated Circuits (ICs)	
Series SAM4S Sories ARM® Cortex®-M4 Core Processor 32-Bit Speed 120MHz Connectivity EBI/EMI, PC, IrDA, Memory Card, SPI, SSC, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, POR, PWM, WDT Number of I/O 79 Program Memory Size IMB (IM x 8) Program Memory Type FLASH EEPROM Size - RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 1.62 V ~ 3.6 V Data Converters A/D 16x12b, D/A 2x12b Oscillator Type Internal Operating Temperature - Package / Case 100-TFBGA (9x9)		Embedded - Microcontrollers	
Core ProcessorARM® Cortex®-M4Core Size32-BitSpeed120MHzConnectivityEBI/EMI, I*C, IrDA, Memory Card, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O79Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Package	100-TFBGA	
Core Size32-BitSpeed120MHzConnectivityEBI/EMI, PC, IrDA, Memory Card, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O79Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Series	SAM4S	
Speed120MHzConnectivityEBI/EMI, PC, IrDA, Memory Card, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O79Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator Type-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Core Processor	ARM® Cortex®-M4	
PrimeEBI/EMI, PC, IrDA, Memory Card, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O79Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case100-TFBGAUol TFBGA (9x9)100-TFBGA (9x9)	Core Size	32-Bit	
PeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O79Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Speed	120MHz	
Number of I/O79Program Memory Size1MB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Connectivity	EBI/EMI, I2C, IrDA, Memory Card, SPI, SSC, UART/USART, USB	
Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Number of I/O	79	
EEPROM Size-RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Program Memory Size	1MB (1M x 8)	
RAM Size160K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	EEPROM Size	-	
Data ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	RAM Size	160K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Voltage - Supply (Vcc/Vdd)	1.62 V ~ 3.6 V	
Operating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Data Converters	A/D 16x12b, D/A 2x12b	
Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Oscillator Type	Internal	
Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Operating Temperature	-40°C ~ 105°C (TA)	
Supplier Device Package100-TFBGA (9x9)	Mounting Type	-	
	Package / Case	100-TFBGA	
Report errors?	Supplier Device Package	100-TFBGA (9x9)	
			Report errors?

ATSAM4SD16CB-CN Guarantees



Quality Guarantees

We provide 90 days warranty. * If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



Service Guarantees

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

ATSAM4SD16CB-CN Payment Methods



If you have any question about ATSAM4SD16CB-CN, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com