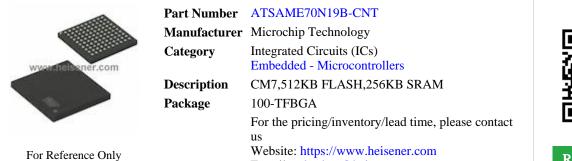


# ATSAME70N19B-CNT

#### **ATSAME70N19B-CNT Information**



E-mail: salesdept@heisener.com



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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.



## **ATSAME70N19B-CNT Specifications**

Manufacturer Part Number ATSAME70N19B-CNT   Manufacturer Microchip Technology   Category Integrated Circuits (ICs)   Embedded - Microcontrollers Embedded - Microcontrollers   Package 100-TFBGA   Stries AAM & TO   Core Processor ARM® Cortex®-M7   Core Size 32-Bit   Speed 300MHz   Connectivity CANbus, Ethernet, PC, IrDA, LINbus, SPI, UART/USART, USB   Porpharals Brown-out Detect/Reset, DMA, PS, POR, PWM, WDT   Number of I/O 75   Program Memory Size -   Program Memory Type FLASH   EEPROM Size -   RAM Size 256K x 8   Voltage - Supply (Vcc/Vdd) 1.62 V ~ 3.6 V   Data Converters A/D 10x12b; D/A 2x12b   Oscillator Type -   Operating Temperature -40°C ~ 105°C (TA)   Mounting Type -   Package / Case 100-TFBGA (9x9)			
Category Integrated Circuits (ICs)   Embedded - Microcontrollers   Package 100-TFBGA   Series SAM E70   Core Processor ARM® Cortex®-M7   Core Size 32-Bit   Speed 300MHz   Connectivity CANbus, Ethernet, PC, IrDA, LINbus, SPI, UART/USART, USB   Peripherals Brown-out Detect/Reset, DMA, PS, POR, PWM, WDT   Number of I/O 75   Program Memory Size 512KB (512K x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 256K x 8   Voltage - Supply (Vcc/Vdd) 1.62 V ~ 3.6 V   Data Converters A/D 10x12b; D/A 2x12b   Oscillator Type Internal   Operating Temperature -40°C ~ 105°C (TA)   Mounting Type -   Package / Case 100-TFBGA (9x9)	Manufacturer Part Number	ATSAME70N19B-CNT	
IndextedEmbedded - MicrocontrollersPackage100-TFBGASeriesSAM E70Core ProcessorARM® Cortex®-M7Core Size32-BitSpeed300MHzConectivityCANbus, Ethernet, PC, IrDA, LINbus, SPI, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O75Program Memory Size512KB (512K x 8)PERPOM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case100-TFBGA (9x9)Supplier Device Package100-TFBGA (9x9)	Manufacturer	Microchip Technology	
Package100-TFBGASeriesSAM E70Core ProcessorARM® Cortex®-M7Core Size32-BitSpeed300MHzConnectivityCANbus, Ethernet, PC, IrDA, LINbus, SPI, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O75Program Memory Size512KB (512K x 8)PEROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator Type40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Category	Integrated Circuits (ICs)	
SeriesSAM E70SeriesARM® Cortex®-M7Core Processor32-BitSped300MHzSonnectivityCANbus, Ethernet, PC, IrDA, LINbus, SPI, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O75Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersAD 10x12b; D/A 2x12bOscillator Type-Operating Temperature-Aubouring Type-Prokage / Case100-TFBGA (9x9)		Embedded - Microcontrollers	
Core ProcessorARM® Cortex®-M7Core Size32-BitSpeed300MHzConnectivityCANbus, Ethernet, PC, IrDA, LINbus, SPI, UART/USART, USBPripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O75Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator Type-Mounting Type-Prokage / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Package	100-TFBGA	
Core Size32-BitSpeed300MHzConnectivityCANbus, Ethernet, PC, IrDA, LINbus, SPI, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O75Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Series	SAM E70	
Speed300MHzConnectivityCANbus, Ethernet, I*C, IrDA, LINbus, SPI, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, I*S, POR, PWM, WDTNumber of I/O75Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Core Processor	ARM® Cortex®-M7	
Connectivity CANbus, Ethernet, PC, IrDA, LINbus, SPI, UART/USART, USB   Peripherals Brown-out Detect/Reset, DMA, PS, POR, PWM, WDT   Number of I/O 75   Program Memory Size 512KB (512K x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 256K x 8   Voltage - Supply (Vcc/Vdd) 1.62 V ~ 3.6 V   Data Converters A/D 10x12b; D/A 2x12b   Oscillator Type Internal   Operating Temperature -   Package / Case 100-TFBGA (9x9)	Core Size	32-Bit	
Peripherals Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT   Number of I/O 75   Program Memory Size 512KB (512K x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 256K x 8   Voltage - Supply (Vcc/Vdd) 1.62 V ~ 3.6 V   Data Converters A/D 10x12b; D/A 2x12b   Oscillator Type Internal   Operating Temperature -   Package / Case 100-TFBGA (9x9)	Speed	300MHz	
Number of I/O 75   Program Memory Size 512KB (512K x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 256K x 8   Voltage - Supply (Vcc/Vdd) 1.62 V ~ 3.6 V   Data Converters A/D 10x12b; D/A 2x12b   Oscillator Type Internal   Operating Temperature -40°C ~ 105°C (TA)   Mounting Type -   Package / Case 100-TFBGA (9x9)	Connectivity	CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB	
Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGA (9x9)	Peripherals	Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Number of I/O	75	
EEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Program Memory Size	512KB (512K x 8)	
RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	Program Memory Type	FLASH	
Note of the intervalDefendenceVoltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	EEPROM Size	-	
Data ConvertersA/D 10x12b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case100-TFBGASupplier Device Package100-TFBGA (9x9)	RAM Size	256K 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 10x12b; 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?

#### **ATSAME70N19B-CNT 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.

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#### **Service Guarantees**

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

DISCOVER

#### **ATSAME70N19B-CNT Payment Methods**





If you have any question about ATSAME70N19B-CNT, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com