

# ATSAMV71N21B-CB

#### **ATSAMV71N21B-CB Information**



For Reference Only

Part Number ATSAMV71N21B-CB

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** FLASH, 384KB SRAM

Package 100-TFBGA

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## **ATSAMV71N21B-CB Specifications**

Manufacturer Part NumberATSAMV71N21B-CBManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage100-TFBGASeriesAutomotive, AEC-Q100, SAM V71Core ProcessorARM® Cortex®-M7Core Size32-BitSpeed300MHzConnectivityCANbus, Ethernet, IPC, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, IPS, POR, PWM, WDTNumber of I/O75Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size384K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 10x12b, D/A 2x12bOscillator TypeInternalOperating Temperature40°C p. 105°C (TA)		•
Category Integrated Circuits (ICs) Embedded - Microcontrollers  Package 100-TFBGA Series Automotive, AEC-Q100, SAM V71 Core Processor ARM® Cortex®-M7 Core Size 32-Bit Speed 300MHz Connectivity CANbus, Ethernet, I°C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, I°S, POR, PWM, WDT  Number of I/O 75 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size - RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V Data Converters A/D 10x12b, D/A 2x12b Oscillator Type Internal	Manufacturer Part Number	ATSAMV71N21B-CB
Embedded - Microcontrollers  Package 100-TFBGA  Series Automotive, AEC-Q100, SAM V71  Core Processor ARM® Cortex®-M7  Core Size 32-Bit  Speed 300MHz  Connectivity CANbus, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB  Peripherals Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT  Number of I/O 75  Program Memory Size 2MB (2M x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	Manufacturer	Microchip Technology
Package 100-TFBGA Series Automotive, AEC-Q100, SAM V71 Core Processor ARM® Cortex®-M7 Core Size 32-Bit Speed 300MHz Connectivity CANbus, Ethernet, IPC, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, IPS, POR, PWM, WDT Number of I/O 75 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size - RAM Size 384K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V Data Converters A/D 10x12b, D/A 2x12b Oscillator Type Internal	Category	Integrated Circuits (ICs)
Series Automotive, AEC-Q100, SAM V71  Core Processor ARM® Cortex®-M7  Core Size 32-Bit  Speed 300MHz  Connectivity CANbus, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB  Peripherals Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT  Number of I/O 75  Program Memory Size 2MB (2M x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal		Embedded - Microcontrollers
Core Processor Core Size 32-Bit Speed 300MHz Connectivity CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT Number of I/O 75 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size - RAM Size 384K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V Data Converters A/D 10x12b, D/A 2x12b Oscillator Type Internal	Package	100-TFBGA
Core Size 32-Bit Speed 300MHz Connectivity CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT Number of I/O 75 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size - RAM Size 384K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V Data Converters A/D 10x12b, D/A 2x12b Oscillator Type Internal	Series	Automotive, AEC-Q100, SAM V71
Speed 300MHz Connectivity CANbus, Ethernet, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT  Number of I/O 75 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH  EEPROM Size - RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	Core Processor	ARM® Cortex®-M7
Connectivity CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT  Number of I/O 75 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size - RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	Core Size	32-Bit
Peripherals Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT  Number of I/O 75  Program Memory Size 2MB (2M x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	Speed	300MHz
Number of I/O 75  Program Memory Size 2MB (2M x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	Connectivity	CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, SSC, UART/USART, USB
Program Memory Size 2MB (2M x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	Peripherals	Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT
Program Memory Type FLASH  EEPROM Size -  RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	Number of I/O	75
EEPROM Size -  RAM Size 384K x 8  Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	Program Memory Size	2MB (2M x 8)
RAM Size $384K \times 8$ Voltage - Supply (Vcc/Vdd) $3 \text{ V} \sim 3.6 \text{ V}$ Data Converters $A/D 10x12b, D/A 2x12b$ Oscillator Type Internal	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V  Data Converters A/D 10x12b, D/A 2x12b  Oscillator Type Internal	EEPROM Size	-
Data Converters A/D 10x12b, D/A 2x12b Oscillator Type Internal	RAM Size	384K x 8
Oscillator Type Internal	Voltage - Supply (Vcc/Vdd)	3 V ~ 3.6 V
**	Data Converters	A/D 10x12b, D/A 2x12b
Operating Temperature $40^{\circ}\text{C} \approx 105^{\circ}\text{C} (\text{TA})$	Oscillator Type	Internal
operating reinperature -40 C ~ 103 C (1A)	Operating Temperature	-40°C ~ 105°C (TA)
Mounting Type -	Mounting Type	-
Package / Case 100-TFBGA	Package / Case	100-TFBGA
Supplier Device Package 100-TFBGA (9x9)	Supplier Device Package	100-TFBGA (9x9)
Report errors?		Report errors?

#### **ATSAMV71N21B-CB 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.

## **ATSAMV71N21B-CB Payment Methods**



















### **ATSAMV71N21B-CB Shipping Methods**













If you have any question about ATSAMV71N21B-CB, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com