

# ATSAM3A4CA-AU

#### ATSAM3A4CA-AU Information

	Part Number	ATSAM3A4CA-AU	
	Manufacturer	Microchip Technology	
www.helmer.com	Category	Integrated Circuits (ICs) Embedded - Microcontrollers	ž
	Description IC MCU 32BIT 256KB FLASH 100LQFP	IC MCU 32BIT 256KB FLASH 100LQFP	- 5
	Package	100-LQFP	
a film		For the pricing/inventory/lead time, please contact us	
For Reference Only		Website: https://www.heisener.com E-mail: salesdept@heisener.com	I



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## ATSAM3A4CA-AU Specifications

Manufacturer Microchip Technology   Microchip Technology Integrated Circuits (ICs)   Embedded - Microcontrollers   Package 100-LQFP   Series SAM3A   Core Processor ARM? Cortex?-M3   Core Size 32-Bit   Speed 84MHz   Connectivity CAN, 12C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USB   Peripherals Brown-out Detect/Reset, DMA, 12S, POR, PWM, WDT   Number of I/O 63   Program Memory Size 256KB (256K x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 64K 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 ~ 85°C (TA)   Mounting Type -   Package / Case 100-LQFP   Supplier Device Package 100-LQFP				
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage100-LQFPSeriesSAM3ACore ProcessorARM? Cortex?-M3Core Size32-BitSpeed84MHzConnectivityCAN, 12C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O63Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFP (14x14)	Manufacturer Part Number	ATSAM3A4CA-AU		
Embedded - MicrocontrollersPackage100-LQFPSeriesSAM3ACore ProcessorARM? Cortex?-M3Core Size32-BitSpeed84MHzConnectivityCAN, 12C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O63Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFP (14x14)	Manufacturer	Microchip Technology		
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SeriesSAM3ACore ProcessorARM? Cortex?-M3Core Size32-BitSpeed84MHzConnectivityCAN, 12C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O63Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case100-LQFP (14x14)		Embedded - Microcontrollers		
Core ProcessorARM? Cortex?-M3Core Size32-BitSpeed84MHzConnectivityCAN, 12C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O63Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)-Package / Case100-LQFP (14x14)	Package	100-LQFP		
Core Size32-BitSpeed84MHzConnectivityCAN, I2C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O63Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFP (14x14)	Series	SAM3A		
Speed84MHzConnectivityCAN, 12C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O63Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFP (14x14)	Core Processor	ARM? Cortex?-M3		
ConnectivityCAN, 12C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USBPeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O63Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case100-LQFP (14x14)	Core Size	32-Bit		
PeripheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O63Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFP (14x14)	Speed	84MHz		
Number of I/O 63   Program Memory Size 256KB (256K x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 64K 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 ~ 85°C (TA)   Mounting Type -   Package / Case 100-LQFP (14x14)	Connectivity	CAN, I2C, IrDA, LIN, MMC, SPI, SSC, UART/USART, USB		
Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFP (14x14)	Peripherals	Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT		
Program Memory TypeFLASHEEPROM Size-RAM Size64K x 8Voltage - Supply (Vcc/Vd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Number of I/O	63		
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Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.6 VData ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFPSupplier Device Package100-LQFP (14x14)	EEPROM Size	-		
Data ConvertersA/D 16x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFPSupplier Device Package100-LQFP (14x14)	RAM Size	64K x 8		
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Voltage - Supply (Vcc/Vdd)	1.62 V ~ 3.6 V		
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Data Converters	A/D 16x12b, D/A 2x12b		
Mounting Type-Package / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Oscillator Type	Internal		
Package / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Operating Temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C} \text{(TA)}$		
Supplier Device Package100-LQFP (14x14)	Mounting Type	-		
	Package / Case	100-LQFP		
Report errors?	Supplier Device Package	100-LQFP (14x14)		
			Report errors?	

#### **ATSAM3A4CA-AU 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.

#### ATSAM3A4CA-AU Payment Methods



### ATSAM3A4CA-AU Shipping Methods



If you have any question about ATSAM3A4CA-AU, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com