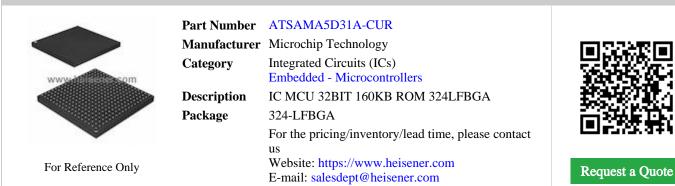


ATSAMA5D31A-CUR

ATSAMA5D31A-CUR Information



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.



ATSAMA5D31A-CUR Specifications

Manufacturer Microchip Technology Manufacturer Microchip Technology Category Integrated Circuits (ICs) Embedded - Microcontrollers Package 324-LFBGA Series SAMASD3 Core Processor ARM? Cortex?-A5 Core Size 32-Bit Speed S36MHz Connectivity EBI/EMI, Ethernet, 12C, Memory Card, SPI, SSC, UART/USART, USB Preipherals DMA, LCD, POR, PWM, WDT Number of I/O 160 Program Memory Size 160KB (160K x 8) Program Memory Type ROM EEPROM Size - RAM Size 1.65 V ~ 3.6 V Voltage - Supply (Vcc/Vdd) 1.65 V ~ 3.6 V Operating Temperature 40°C ~ 85°C (TA) Mounting Type - Package / Case 324-LFBGA Supplier Device Package 324-LFBGA (15x15)			
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage324-LFBGASeriesSAMA5D3Core ProcessorARM? Cortex?-A5Core Size32-BitSpeed536MHzConnectivityEBI/EMI, Ethernet, I2C, Memory Card, SPI, SSC, UART/USART, USBPeripheralsDMA, LCD, POR, PWM, WDTNumber of I/O160Program Memory Size160KB (160K x 8)Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGA (15x15)	Manufacturer Part Number	ATSAMA5D31A-CUR	
Embedded - MicrocontrollersPackage324-LFBGASeriesSAMA5D3Core ProcessorARM? Cortex?-A5Core Size32-BitSpeed536MHzConnectivityEBI/EMI, Ethernet, 12C, Memory Card, SPI, SSC, UART/USART, USBPeripheralsDMA, LCD, POR, PWM, WDTNumber of I/O160Program Memory Size160KB (160K x 8)Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type524-LFBGASupplier Device Package324-LFBGA (15x15)	Manufacturer	Microchip Technology	
Package324-LFBGASeriesSAMA5D3Core ProcessorARM? Cortex?-A5Core Size32-BitSpeed536MHzConnectivityEBI/EMI, Ethernet, I2C, Memory Card, SPI, SSC, UART/USART, USBPeripheralsDMA, LCD, POR, PWM, WDTNumber of I/O160Program Memory Size160KB (160K x 8)PERPOM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case324-LFBGA (15x15)	Category	Integrated Circuits (ICs)	
Series SAMA5D3 Core Processor ARM? Cortex?-A5 Core Size 32-Bit Speed 536MHz Connectivity EBI/EMI, Ethernet, 12C, Memory Card, SPI, SSC, UART/USART, USB Peripherals DMA, LCD, POR, PWM, WDT Number of I/O 160 Program Memory Size 160KB (160K x 8) Program Memory Type ROM EEPROM Size - RAM Size 128K x 8 Voltage - Supply (Vcc/Vdd) 1.65 V ~ 3.6 V Data Converters A/D 12x12b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type - Package / Case 324-LFBGA (15x15)		Embedded - Microcontrollers	
Core ProcessorARM? Cortex?-A5Core Size32-BitSpeed536MHzConnectivityEBI/EMI, Ethernet, 12C, Memory Card, SPI, SSC, UART/USART, USBPeripheralsDMA, LCD, POR, PWM, WDTNumber of I/O160Program Memory Size160KB (160K x 8)Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-A0°C ~ 85°C (TA)324-LFBGASupplier Device Package324-LFBGA (15x15)	Package	324-LFBGA	
Core Size32-BitSpeed536MHzConnectivityEBI/EMI, Ethernet, I2C, Memory Card, SPI, SSC, UART/USART, USBPeripheralsDMA, LCD, POR, PWM, WDTNumber of I/O160Program Memory Size160KB (160K x 8)Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGA (15x15)	Series	SAMA5D3	
Speed536MHzConnectivityEBI/EMI, Ethernet, I2C, Memory Card, SPI, SSC, UART/USART, USBPeripheralsDMA, LCD, POR, PWM, WDTNumber of I/O160Program Memory Size160KB (160K x 8)Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGA (15x15)	Core Processor	ARM? Cortex?-A5	
Connectivity EBI/EMI, Ethernet, I2C, Memory Card, SPI, SSC, UART/USART, USB Peripherals DMA, LCD, POR, PWM, WDT Number of I/O 160 Program Memory Size 160KB (160K x 8) Program Memory Type ROM EEPROM Size - RAM Size 128K x 8 Voltage - Supply (Vcc/Vdd) 1.65 V ~ 3.6 V Data Converters A/D 12x12b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Package / Case 324-LFBGA (15x15)	Core Size	32-Bit	
PeripheralsDMA, LCD, POR, PWM, WDTNumber of I/O160Program Memory Size160KB (160K x 8)Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case324-LFBGA (15x15)	Speed	536MHz	
Number of I/O160Program Memory Size160KB (160K x 8)Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGA (15x15)	Connectivity	EBI/EMI, Ethernet, I2C, Memory Card, SPI, SSC, UART/USART, USB	
Program Memory Size160KB (160K x 8)Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGA (15x15)	Peripherals	DMA, LCD, POR, PWM, WDT	
Program Memory TypeROMEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGA (15x15)	Number of I/O	160	
EEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGASupplier Device Package324-LFBGA (15x15)	Program Memory Size	160KB (160K x 8)	
RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGASupplier Device Package324-LFBGA (15x15)	Program Memory Type	ROM	
Voltage - Supply (Vcc/Vdd)1.65 V ~ 3.6 VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGASupplier Device Package324-LFBGA (15x15)	EEPROM Size	-	
Data ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGASupplier Device Package324-LFBGA (15x15)	RAM Size	128K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGASupplier Device Package324-LFBGA (15x15)	Voltage - Supply (Vcc/Vdd)	1.65 V ~ 3.6 V	
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case324-LFBGASupplier Device Package324-LFBGA (15x15)	Data Converters	A/D 12x12b	
Mounting Type-Package / Case324-LFBGASupplier Device Package324-LFBGA (15x15)	Oscillator Type	Internal	
Package / Case324-LFBGASupplier Device Package324-LFBGA (15x15)	Operating Temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C} \text{ (TA)}$	
Supplier Device Package324-LFBGA (15x15)	Mounting Type	-	
	Package / Case	324-LFBGA	
Report errors?	Supplier Device Package	324-LFBGA (15x15)	
			Report errors?

ATSAMA5D31A-CUR 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.

ATSAMA5D31A-CUR Payment Methods



If you have any question about ATSAMA5D31A-CUR, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com