

# ATSAML10D15A-YF

### **ATSAML10D15A-YF Information**





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.



## **ATSAML10D15A-YF** Specifications

Manufacturer Part Number     ATSAML10D15A-YF       Manufacturer     Microchip Technology       Category     Integrated Circuits (ICs)       Embedded - Microcontrollers     Embedded - Microcontrollers       Package     24-SSOP (0.209", 5.30mm Width)       Series     SAML 10       Core Processor     ARM@ Cortex@-M23       Core Size     32-Bit       Speed     32MHz       Connectivity     PC, LINbus, SPI, UART/USART       Peripherals     Brown-out Detect/Reset, DMA, POR, PWM, WDT       Number of I/O     17       Program Memory Size     32KB (32K x 8)       Program Memory Type     FLASH       KX 8     8       Voltage - Supply (Vcc/Vdd)     1.62 V ~ 3.63 V       Data Converters     A/D 5x12b, D/A 1x10b       Oscillator Type     Internal       Operating Temperature     -40°C ~ 125°C (TA)       Mounting Type     -       Package / Case     24-SSOP (0.209", 5.30mm Width)			
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage24-SSOP (0.209", 5.30mm Width)SeriesSAM L10Core ProcessorARM@ Cortex@-M23Core Size32-BitSpeed32MHzConnectivityPC, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOperating Temperature4.0°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)	Manufacturer Part Number	ATSAML10D15A-YF	
Enbedded - MicrocontrollersPackage24-SSOP (0.209", 5.30mm Width)SeriesSAM L10Core ProcessorARM® Cortex®-M23Core Size32-BitSpeed32MHzConnectivityPC, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Manufacturer	Microchip Technology	
Package24-SSOP (0.209", 5.30mm Width)SeriesSAM L10Core ProcessorARM® Cortex®-M23Core Size32-BitSpeed32MHzConectivityProphonectivityPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)FRAM Size162 V x 8Voltage - Supply (Vcc/Vdd)162 V x 3.63 VOrdertersAD5 St12b, D/A 1x10bData Converters- And SizeOperating Temperature- 40°C ~ 125°C (TA)Mounting Type- 44SSOP (0.209", 5.30mm Width)Supplier Device Package24SSOP (0.209", 5.30mm Width)	Category	Integrated Circuits (ICs)	
SeriesSAM L10Core ProcessorARM® Cortex®-M23Core Size32-BitSpeed32MHzConnectivityPC, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VOscillator TypeInternalOperating Temperature-Adounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP		Embedded - Microcontrollers	
Core ProcessorARM@ Cortex@-M23Core Size32-BitSpeed32MHzConnectivityPC, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size8K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator Type-Porgating Temperature40°C ~ 125°C (TA)Mounting Type24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Package	24-SSOP (0.209", 5.30mm Width)	
Core Size32-BitSpeed32MHzConnectivityPC, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOperating Temperature4.0°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)	Series	SAM L10	
Speed32MHzConnectivityFC, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOperating Temperature40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Core Processor	ARM® Cortex®-M23	
FreeFreeConnectivityPC, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator Type-Program Temperature-0°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)	Core Size	32-Bit	
PeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O17Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator Type-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Speed	32MHz	
Number of I/O     17       Program Memory Size     32KB (32K x 8)       Program Memory Type     FLASH       EEPROM Size     2K x 8       RAM Size     8K x 8       Voltage - Supply (Vcc/Vdd)     1.62 V ~ 3.63 V       Data Converters     A/D 5x12b, D/A 1x10b       Oscillator Type     Internal       Operating Temperature     -40°C ~ 125°C (TA)       Mounting Type     -       Package / Case     24-SSOP (0.209", 5.30mm Width)	Connectivity	I <sup>2</sup> C, LINbus, SPI, UART/USART	
Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Number of I/O	17	
EEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Program Memory Size	32KB (32K x 8)	
RAM Size8K x 8Voltage - Supply (Vcc/Vd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)1.62 V ~ 3.63 VData ConvertersA/D 5x12b, D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	EEPROM Size	2K x 8	
Data ConvertersA/D 5x12b, D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	RAM Size	8K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Voltage - Supply (Vcc/Vdd)	1.62 V ~ 3.63 V	
Operating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Data Converters	A/D 5x12b, D/A 1x10b	
Mounting Type-Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Oscillator Type	Internal	
Package / Case24-SSOP (0.209", 5.30mm Width)Supplier Device Package24-SSOP	Operating Temperature	-40°C ~ 125°C (TA)	
Supplier Device Package 24-SSOP	Mounting Type	-	
	Package / Case	24-SSOP (0.209", 5.30mm Width)	
Report erro	Supplier Device Package	24-SSOP	
			Report errors?

#### **ATSAML10D15A-YF** 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 BUARANTEE

#### **Service Guarantees**

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

#### **ATSAML10D15A-YF Payment Methods**





If you have any question about ATSAML10D15A-YF, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com