



Image may be representation.  
See specifications for product details.



## AT90S2313-10SI

Manufacturer Part Number	<b>AT90S2313-10SI</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-AT90S2313-10SI
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 8BIT 2KB FLASH 20SOIC
Package	20-SOIC (0.295", 7.50mm Width)
Data sheet	<b>Cylindrical Battery Holders.pdf</b>

**Get a Quote**

AT90S2313-10SI - Microchip Technology. New Original in Stock. Download Linear Technology AT90S2313-10SI datasheet/specifications on AllelcoElec.com.  
Request a quote for AT90S2313-10SI, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

AT90S2313-10SI Tech Specifications  
AT90S2313-10SI - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	External
Voltage - Supply (Vcc/Vdd)	4V ~ 6V	Operating Temperature	-40°C ~ 85°C
Supplier Device Package	20-SOIC	Number of I/O	15
Speed	10MHz	Mounting Type	Surface Mount
Series	AVR@ 90S	EEPROM Size	128 x 8
RAM Size	128 x 8	Data Converters	-
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	2KB (1K x 16)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	SPI, UART/USART
Package / Case	20-SOIC (0.295", 7.50mm Width)	Base Product Number	AT90S2313
Package	Tube		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology AT90S2313-10SI

Product Attribute				
Part Number	AT90S2313-10SI	AT90S2323-10PI	AT90S2313-10PI	AT90S2313-4PC
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Package / Case	20-SOIC (0.295", 7.50mm Width)	8-DIP (0.300", 7.62mm)	20-DIP (0.300", 7.62mm)	20-DIP (0.300", 7.62mm)
Mounting Type	Surface Mount	Through Hole	Through Hole	Through Hole
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	0°C ~ 70°C
Voltage - Supply (Vcc/Vdd)	4V ~ 6V	4V ~ 6V	4V ~ 6V	2.7V ~ 6V
Base Product Number	AT90S2313	AT90S2323	AT90S2313	AT90S2313
Oscillator Type	External	Internal	External	External
Series	AVR@ 90S	AVR@ 90S	AVR@ 90S	AVR@ 90S
Program Memory Size	2KB (1K x 16)	2KB (1K x 16)	2KB (1K x 16)	2KB (1K x 16)
RAM Size	128 x 8	128 x 8	128 x 8	128 x 8
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tube	Tube	Tube	Tube
Core Processor	AVR	AVR	AVR	AVR
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Data Converters	-	-	-	-
Supplier Device Package	20-SOIC	8-PDIP	20-PDIP	20-PDIP
Speed	10MHz	10MHz	10MHz	4MHz
EEPROM Size	128 x 8	128 x 8	128 x 8	128 x 8
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT
Connectivity	SPI, UART/USART	SPI	SPI, UART/USART	SPI, UART/USART
Number of I/O	15	3	15	15

### AT90S2313-10SI Datasheet PDF

Download AT90S2313-10SI pdf datasheets and Microchip Technology documentation for AT90S2313-10SI - Microchip Technology.

#### Datasheets

Cylindrical Battery Holders.pdf

#### PCN Packaging

MBB/Label Chgs 16/Nov/2018.pdf

Transfer to Microchip/Label/Pkg 5/Sep/2016.pdf

## Customers Also Interested in

### Recommended Products



**AT90S2323-10PI**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 8DIP



**AT90S2313-10PI**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 20DIP



**AT90S2313-4PC**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 20DIP



**AT90S1200-4SI**  
Microchip Technology  
IC MCU 8BIT 1KB FLASH 20SOIC



**AT90S2333-8PC**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 28DIP



**AT90S1200A-4YC**  
Microchip Technology  
IC MCU 8BIT 1KB FLASH 20SSOP



**AT90S4414-4AI**  
Microchip Technology  
IC MCU 8BIT 4KB FLASH 44TQFP



**AT90S1200-4YI**  
Microchip Technology  
IC MCU 8BIT 1KB FLASH 20SSOP



**AT90S1200A-4PC**  
Microchip Technology  
IC MCU 8BIT 1KB FLASH 20DIP



**AT90S4414-4AC**  
Microchip Technology  
IC MCU 8BIT 4KB FLASH 44TQFP



**AT90S2333-8PI**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 28DIP



**AT90S2323-10SC**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 8SOIC



**AT90S1200-4SC**  
Microchip Technology  
IC MCU 8BIT 1KB FLASH 20SOIC



**AT90S1200A-4SI**  
Microchip Technology  
IC MCU 8BIT 1KB FLASH 20SOIC



**AT90S2313-10PC**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 20DIP



**AT90S2313-10SC**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 20SOIC



**AT90S1200A-12YC**  
Microchip Technology  
IC MCU 8BIT 1KB FLASH 20SSOP



**AT90S2313-4SI**  
Microchip Technology  
IC MCU 8BIT 2KB FLASH 20SOIC

## Shipment

### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

### Delivery Cost

- > Use your express account for shipment if you have one.
  - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

### Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

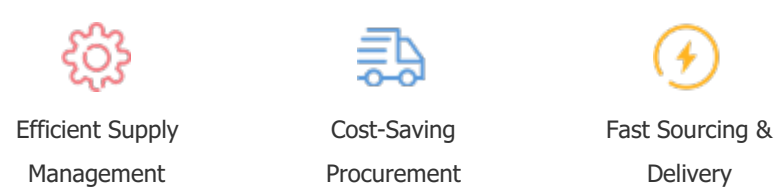
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

### Payment Support

The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -



Contact us if you have any questions.



### Certifications & Memberships



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