



Image may be representation.  
See specifications for product details.



## DS18B20Z

Manufacturer Part Number	<b>DS18B20Z</b>
Manufacturer	<b>Maxim Integrated</b>
Allelco Part Number	32D-DS18B20Z
ECAD Model	Request Free CAD Models
Parts Description	<b>SENSOR DIGITAL -55C-125C 8SOIC</b>
Package	<b>8-SOIC (0.154", 3.90mm Width)</b>
Data sheet	<b>DS18B20 Datasheet.pdf</b>

**Get a Quote**

DS18B20Z - Analog Devices Inc./Maxim Integrated.New Original in Stock. Download Linear Technology DS18B20Z datasheet/specifications on AllelcoElec.com.  
Request a quote for DS18B20Z, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

DS18B20Z Tech Specifications  
DS18B20Z - Analog Devices Inc./Maxim Integrated technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Maxim Integrated	Package / Case	8-SOIC (0.154", 3.90mm Width)
Voltage - Supply	3V ~ 5.5V	Package	Tube
Test Condition	-10°C ~ 85°C (-55°C ~ 125°C)	Output Type	1-Wire®
Supplier Device Package	8-SOIC	Operating Temperature	-55°C ~ 125°C
Series	-	Mounting Type	Surface Mount
Sensor Type	Digital, Local	Features	Output Switch, Programmable Limit, Programmable Resolution
Sensing Temperature - Remote	-	Base Product Number	DS18B20
Sensing Temperature - Local	-55°C ~ 125°C	Accuracy - Highest (Lowest)	±0.5°C (±2°C)
Resolution	12 b		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Analog Devices Inc./Maxim Integrated DS18B20Z

Product Attribute				
Part Number	DS18B20Z	<b>DS18S20+T&amp;R</b>	<b>DS18B20Z+T&amp;R</b>	<b>DS18S20+</b>
Manufacturer	Analog Devices Inc./Maxim Integrated	Analog Devices Inc./Maxim Integrated	Analog Devices Inc./Maxim Integrated	Analog Devices Inc./Maxim Integrated
Voltage - Supply	3V ~ 5.5V	3V ~ 5.5V	3V ~ 5.5V	3V ~ 5.5V
Supplier Device Package	8-SOIC	TO-92-3	8-SOIC	TO-92-3
Package / Case	8-SOIC (0.154", 3.90mm Width)	TO-226-3, TO-92-3 (TO-226AA) Formed Leads	8-SOIC (0.154", 3.90mm Width)	TO-226-3, TO-92-3 (TO-226AA)
Operating Temperature	-55°C ~ 125°C	-55°C ~ 125°C	-55°C ~ 125°C	-55°C ~ 125°C
Package	Tube	Tape & Reel (TR)	Tape & Reel (TR)	Bulk
Mounting Type	Surface Mount	Through Hole	Surface Mount	Through Hole
Base Product Number	DS18B20	DS18S20	DS18B20	DS18S20
Features	Output Switch, Programmable Limit, Programmable Resolution	Programmable Limit, Standby Mode	Output Switch, Programmable Limit, Programmable Resolution	Programmable Limit, Standby Mode
Sensor Type	Digital, Local	Digital, Local	Digital, Local	Digital, Local
Resolution	12 b	9 b	12 b	9 b
Sensing Temperature - Remote	-	-	-	-
Series	-	-	-	-
Output Type	1-Wire®	1-Wire®	1-Wire®	1-Wire®
Accuracy - Highest (Lowest)	±0.5°C (±2°C)	±0.5°C (±2°C)	±0.5°C (±2°C)	±0.5°C (±2°C)
Sensing Temperature - Local	-55°C ~ 125°C	-55°C ~ 125°C	-55°C ~ 125°C	-55°C ~ 125°C
Test Condition	-10°C ~ 85°C (-55°C ~ 125°C)	-10°C ~ 85°C (-55°C ~ 125°C)	-10°C ~ 85°C (-55°C ~ 125°C)	-10°C ~ 85°C (-55°C ~ 125°C)

### DS18B20Z Datasheet PDF

Download DS18B20Z pdf datasheets and Analog Devices Inc./Maxim Integrated documentation for DS18B20Z - Analog Devices Inc./Maxim Integrated.

#### Datasheets

[DS18B20 Datasheet.pdf](#)

#### Environmental Information

[Maxim Integrated REACH.pdf](#)

[Maxim Integrated RoHS Cert.pdf](#)

[Material Declaration DS18B20Z.pdf](#)

#### PCN Obsolescence/ EOL

[Mult Dev OBS 15/Jul/2015.pdf](#)

#### Application Notes



















[Application Note 1234.pdf](#)

[Application Note 5678.pdf](#)

[Application Note 9012.pdf](#)

## Customers Also Interested in

### Recommended Products

					
<b>DS18S20+T&amp;R</b> Analog Devices Inc./Maxim Integrated SENSOR DIGITAL -55C-125C TO92-3	<b>DS18B20U+T&amp;R</b> Analog Devices / Maxim Integrated	<b>DS18B20Z+T&amp;R</b> Analog Devices Inc./Maxim Integrated SENSOR DIGITAL -55C-125C 8SOIC	<b>DS18B20Z+T&amp;R</b> Maxim/dallas	<b>DS18S20+</b> Analog Devices Inc./Maxim Integrated SENSOR DIGITAL -55C-125C TO92-3	<b>DS18B20U+T</b> Analog Devices / Maxim Integrated
					
<b>DS18B20Z</b> UMW 11 B -55 ~ 125C 1-WIRE DIGITAL,	<b>DS18B20U+TR</b> Analog Devices / Maxim Integrated	<b>DS18B20U</b> UMW 11 B -55 ~ 125C 1-WIRE DIGITAL,	<b>DS18B20U+</b> Analog Devices Inc./Maxim Integrated SENSOR DIGITAL -55C-125C 8UMAX	<b>DS18B20Z+TR</b> Analog Devices / Maxim Integrated	<b>DS18B20KCT18B20</b>
					
<b>DS18B20-SL+TR</b> Analog Devices / Maxim Integrated	<b>DS18B20Z+T</b> Analog Devices / Maxim Integrated	<b>DS18B20XBL18B20</b> XINBOLE	<b>DS18B20Z+</b> Analog Devices Inc./Maxim Integrated SENSOR DIGITAL -55C-125C 8SOIC	<b>DS18B20/HK18B20</b> HK	<b>DS18B20U+T&amp;R</b> Analog Devices Inc./Maxim Integrated SENSOR DIGITAL -55C-125C 8UMAX

## 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

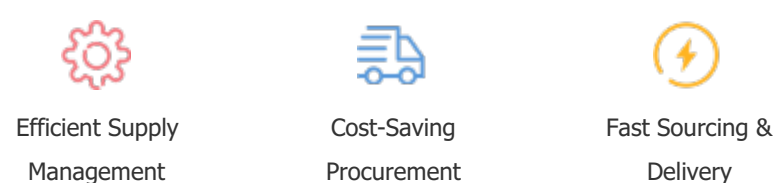
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

### Payment Support

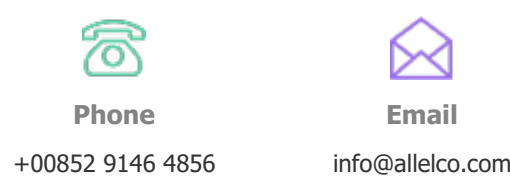
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -



Contact us if you have any questions.



### Certifications & Memberships



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