

Introduction __

The ZT-2015 offers 6 wireless input channels, each of which can be connected to different kinds of RTD sensors. It features automatic compensation for 3-wire RTD, with long-distance measurement capabilities so that it can measure accurately regardless of the length of the wires. Also the ZT-2015 is fully RoHS-compliant and has qualification for 4 kV ESD protection as well as 3000 VDC intra-module isolation. Users can easily configure the module address, protocol, checksum, ZB-PID, ZB-channel and type code settings using a combination of rotary and DIP switches.

System Specifications ____

Communication Interface		
Wireless Standards	ZigBee 2007 Pro	
Transmission Power	11 dBm (FCC Certificated)	
2.4 GHz Antenna	5 dBi Omni directional	
Transmission range (LOS)	700 m(Typical)	
Certification	CE/FCC, FCC ID	
Max. Slaves in a ZigBee Network	255	
ZB-100R/ZB-100T Support	Yes	
Protocols	Supports DCON and Modbus RTU Protocols	
Hot Swap	Rotary and DIP switch	
LED Indicators		
Power	1 LED, red	
ZigBee Communication	1 LED, green	
Isolation		
Intra-module Isolated, Field-to-Logic	3000 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for Power Line, Communication Line and each Channel, ±8 kV Air for Random Point	
EFT (IEC 61000-4-4)	±4 kV for Power Line	
Surge (IEC 61000-4-5)	±3 kV for Power Line	
Power		
Consumption	1.5 W Max.	
Mechanical		
Flammability	Fire Retardant Materials (UL94-V0 Level)	
Dimensions (W x L x H)	33 mm x 87 mm x 110 mm	
Installation	DIN-Rail	
Environment		
Operating Temperature	-25 °C ~ +75 °C	
Storage Temperature	-30 °C ~ +80 °C	
Relative Humidity	10 ~ 90% RH, Non-condensing	

Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4G /ZigBee Specifications
- Wireless Transmission Range up to 700 m
- GUI Configuration Software (Windows Version)
- 3-wire RTD Input with Lead Resistance Elimination
- Individual Channel Configuration
- Open Wire Detection
- Overvoltage Protection
- DIN-Rail Mounting



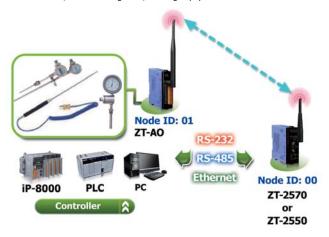






Applications -

Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.



I/O Specifications _

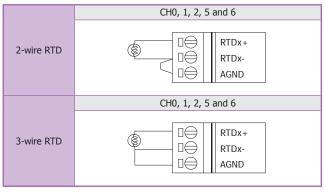
Analog Input	og Input	
Input Channels	6	
Input Type	2/3-wire RTD	
RTD Types	Pt100, Pt1000, Ni120, Cu100, Cu1000	
Resolution	16-bit	
Sampling Rate	12 Samples/Sec. (Total)	
Accuracy	+/-0.05%	
Zero Drift	+/-0.5 μV/°C	
Span Drift	+/-20 μV/°C	
Common Mode Rejection	150 dB	
Normal Mode Rejection	100 dB	
Open Wire Detection	Yes	
Overvoltage Protection	120 VDC/110 VAC	
Individual Channel Configuration	Yes	
3-wire RTD Lead Resistance Elimination	Yes	

■ RTD Type Setting (TT) ______

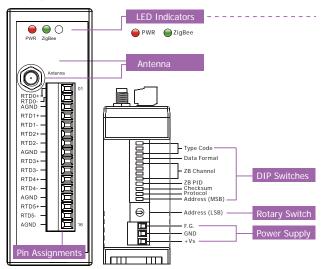
Type Code	RTD Type	Temperature Range
20	Platinum 100, a=0.00385	-100 ~ +100°C
21	Platinum 100, a= 0.00385	0 ~ +100°C
22	Platinum 100, a= 0.00385	0 ~ +200°C
23	Platinum 100, a= 0.00385	0 ~ +600°C
24	Platinum 100, a= 0.003916	-100 ~ +100°C
25	Platinum 100, a= 0.003916	0 ~ +100°C
26	Platinum 100, a= 0.003916	0 ~ +200°C
27	Platinum 100, a= 0.003916	0 ~ +600°C

Type Code	RTD Type	Temperature Range
28	Nickel 120	-80 ~ +100°C
29	Nickel 120	0 ~ +100°C
2A	Platinum 1000, a= 0.00385	-200 ~ +600°C
2E	PT 100, a= 0.00385	-200 ~ +200°C
2F	PT 100, a= 0.003916	-200 ~ +200°C
80	PT 100, a= 0.00385	-200 ~ +600°C
81	PT 100, a= 0.003916	-200 ~ +600°C

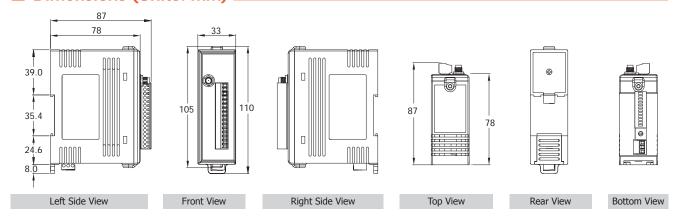
Wiring



Appearance _



■ Dimensions (Units: mm) _



Ordering Information

ZT-2015 CR Wireless 6-channel RTD Input Module with 3-wire RTD Lead Resistance Elimination (RoHS) (Long Range)

Important Note: Zigbee Data Acquisition modules need a Zigbee host converter to coordinate the data transmission route. Please remember to order a ZT-2550, ZT-2570 ZigBee host converter when you purchase Zigbee Data Acquisition products.

Accessories __

MDR-20-24	24 VDC/1.0 A, 24 W Power Supply with DIN-Rail Mounting
ZT-2510 CR	ZigBee Repeater (RoHS)
ZT-2550 CR	RS-485/RS-232 to ZigBee Converter (Host)
ZT-2570 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host) (RoHS)

Vol. IWCP 1.0.01 Beta Version