



## ZB-2017C-T

Wireless 8-ch Current Input Module with High Common Voltage Protection

### Introduction

The ZB-2017C-T is a 16-bit, 8-ch differential analog inputs ZigBee wireless module that provides programmable input range on all analog channels (-20 mA ~ +20 mA, 0 ~ +20 mA, +4 ~ +20 mA). Each analog channel is allowed to configure an individual range and has 200 V<sub>dc</sub> high common voltage protection. Supports Open Wire Detection for 4 ~ 20 mA. Users can be easy to configure the module address, Protocol, Checksum, ZB-PID, ZB-ch and type code by rotary and DIP switch.

### I/O Specifications

Analog Input		
Input Channel		8 Differential
Input Type		-20 mA ~ +20 mA, 0 mA ~ +20 mA, +4 mA ~ +20 mA
Resolution	Normal Mode	16-bit
	Fast Mode	12-bit
Sampling Rate	Normal Mode	16-bit, 10 Samples/Sec. (Total)
	Fast Mode	12-bit, 60 Sample/Sec. (Total)
Accuracy	Normal Mode	+/-0.1% of FSR
	Fast Mode	+/-0.5% of FSR
-3dB Bandwidth	Normal Mode	15.7 Hz
	Fast Mode	78.7 Hz
Zero Drift		+/-20 μV/°C
Span Drift		+/-25 ppm/°C
Common Mode Rejection		86 dB
Normal Mode Rejection		100 dB
Input Impedance		125 Ω
Common Voltage		+/-200 V <sub>dc</sub>
Individual Channel Configurable		Yes
Open Wire Detection for 4 ~ 20 mA		Yes
Intra-module Isolated, Field-to-Logic		3000 V <sub>dc</sub>
ESD Protection		+/-4 kV Contact for Each Channel

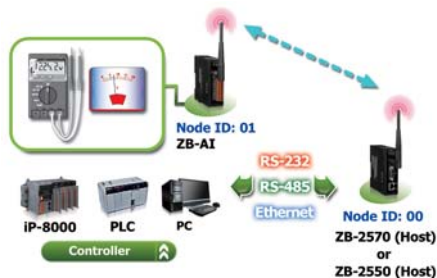
### Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant 2.4 G IEEE802.15.4/ZigBee Specifications
- Wireless Transmission Range up to 700 m (PA-Version)
- Wireless Transmission Range up to 100 m (None/T-Version)
- GUI Configuration Software (Windows Version)
- 8 Differential Current Inputs
- Individual Channel Configuration
- Open Wire Detection for 4 ~ 20 mA
- EFT and ESD Protection
- DIN-Rail Mounting



### Applications

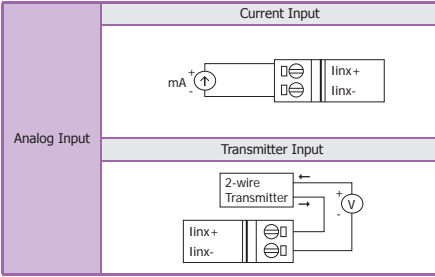
Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote diagnosis, Testing Equipment.



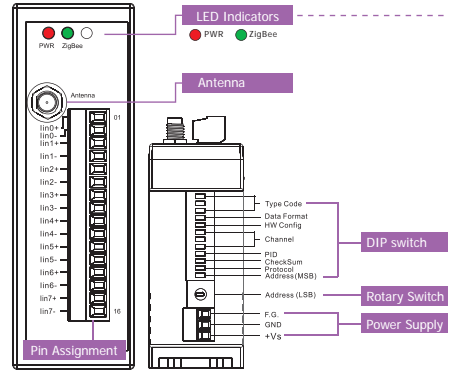
### System Specifications

Communication Interface	
Wireless	ZigBee, IEEE 802.15.4 Standard
Antenna	2.4 GHz-3 dBi Omni-Directional antenna
Protocols	Supports DCON and Modbus RTU Protocols
Hot Swap	By Rotary and DIP switch
LED Indicators	
Power	1 LED, red
ZigBee Communication	1 LED, green
Power	
Power Consumption	1.7 W max.
Mechanical	
Flammability	Fire Retardant Materials (UL94-V0 Level)
Dimensions (W x L x H)	33 mm x 87 mm x 107 mm
Installation	DIN-Rail
Environment	
Operating Temperature	-25 °C ~ +75 °C
Storage Temperature	-30 °C ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

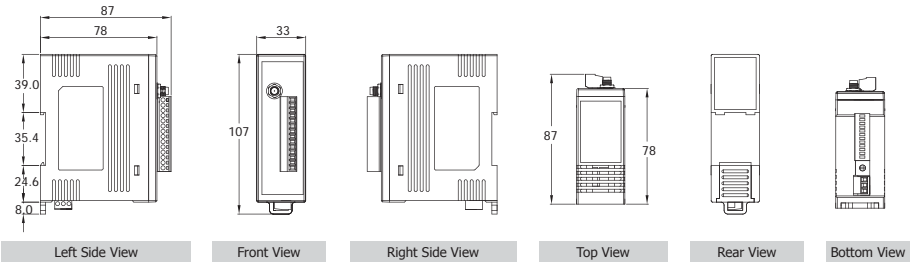
**Wiring**



**Appearance**



**Dimensions (Units: mm)**



**Ordering Information**

ZB-2017C-T CR	Wireless 8-ch Current Input Module with High Common Voltage Protection (RoHS)
Important Note: The ZigBee Data Acquisition modules need a ZigBee host converter to coordinate the data transmission route. Please remember to order a ZB-2550, ZB-2550-T, ZB-2550PA, ZB-2570, ZB-2570-T or ZB-2570PA ZigBee host converter when you purchase the ZigBee Data Acquisition products.	

**Accessories**

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