



ZB-2017C-T/ZB-2017C-PA
Wireless 8-channel Current Input Module
with High Common Voltage Protection

Introduction

The ZB-2017C-T/ZB-2017C-PA is a wireless 16-bit, 8-channel differential analog input ZigBee module that provides a programmable input range on all analog channels (-20 mA ~ +20 mA, 0 ~ +20 mA or +4 ~ +20 mA). Each analog channel can be configured for an individual range and has a high 200 Vdc common voltage protection. The module also supports open wire detection for 4 ~ 20 mA. 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.

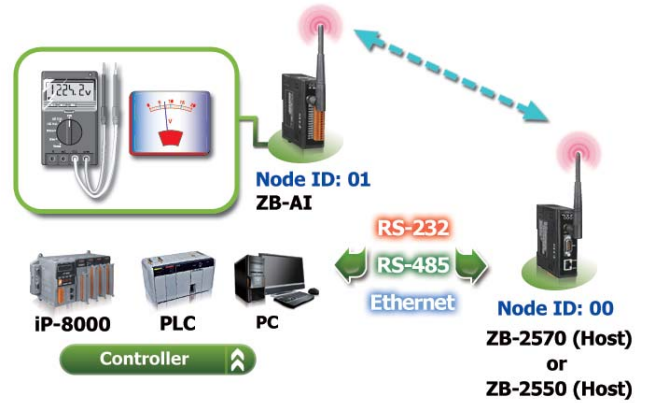
Features

- SM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4G IEEE 802.15.4/ZigBee Specifications
- Wireless Transmission Range up to 700 m (PA-Version)
- Wireless Transmission Range up to 100 m (T-Version)
- GUI Configuration Software (Windows Version)
- 8 Differential Current Input Channels
- 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.



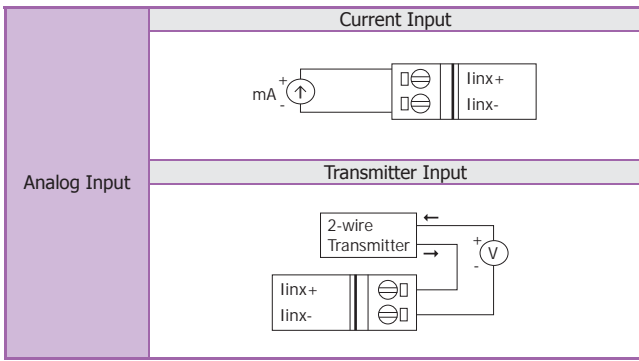
System Specifications

Model	ZB-2017C-T	ZB-2017C-PA
Communication Interface		
Wireless Standards	ZigBee, IEEE 802.15.4	
Transmission Power	4 dBm	22 dBm
2.4 GHz Antenna	3 dBi Omni directional	3 dBi Omni directional
Transmission Range (LoS)	100 m	700 m (Typical) 1 km (Max.)
Certification	CE/FCC, FCC ID	-
Max. Slaves in a ZigBee Network	254	
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	
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	
Relative Humidity	10 ~ 90% RH, Non-condensing	

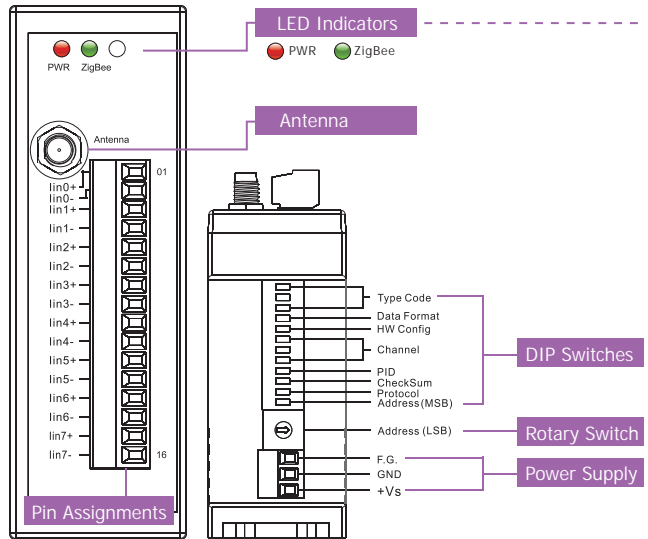
I/O Specifications

Model	ZB-2017C-T	ZB-2017C-PA
Analog Input		
Input Channels	8 Differential	
Input Types	-20 mA ~ +20 mA, 0 mA ~ +20 mA or +4 mA ~ +20 mA	
Resolution	16-bit	
Sampling Rate	16-bit, 10 Samples/Sec. (Total)	
Accuracy	+/-0.1% of FSR	
-3dB Bandwidth	15.7 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 Vdc	
Individual Channel Configuration	Yes	
Open Wire Detection for 4 ~ 20 mA	Yes	
Intra-module Isolation, Field-to-Logic	3000 Vdc	
ESD Protection	+/-4 kV contact for each channel	

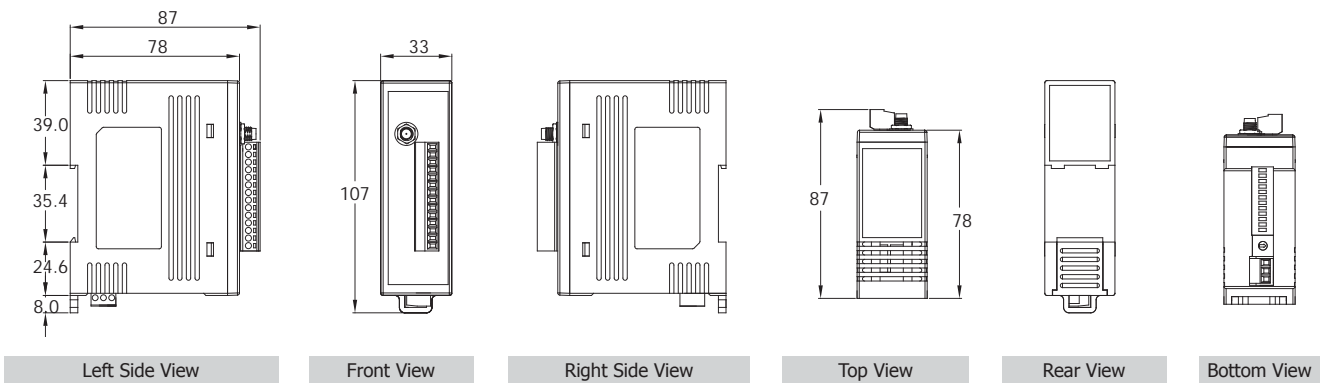
Wiring



Appearance



Dimensions (Units: mm)



Ordering Information

ZB-2017C-T CR	Wireless 8-channel Current Input Module with High Common Voltage Protection (RoHS)
ZB-2017C-PA CR	Wireless 8-channel Current Input Module with High Common Voltage Protection (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 ZB-2550-T, ZB-2550-PA, ZB-2570-T or ZB-2570-PA 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
ZB-2510-T CR	ZigBee Repeater (RoHS)
ZB-2510-PA CR	ZigBee Repeater (RoHS)
ZB-2550-T CR	RS-485/RS-232 to ZigBee Converter (Host)
ZB-2550-PA CR	RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS)
ZB-2570-T CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host) (RoHS)
ZB-2570-PA CR	Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS)

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ZigBee Products