



ZB-2052-T

Wireless 8-ch Isolated Digital Input Module with 16-bit Counters

Introduction

The ZB-2052-T offers 8-ch for digital input, each of which features photo couple isolation. Moreover, you can choose sink type or source type input by wire connections. All channels are able to be used as 16-bit counters. ZB-2052-T not only has 8 LED indicators for channel status but also get qualification for 4 kV ESD protection and 3000 V_{oc} intra-module isolation. Users can be easy to configure the module address, Protocol, Checksum, ZB-PID and ZB-ch by rotary and DIP switch.

Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant 2.4 G IEEE802.15.4/ZigBee Specifications
- Wireless Transmission Range up to 700 m (ZB-2550P/ZB-2570P)
- Wireless Transmission Range up to 100 M (ZB-2550/ZB-2570)
- GUI Configuration Software (Windows Version)
- 8 Digital Input for Wet Contact
- Supports 16-bit Counters for Digital Inputs
- Surge and ESD Protection
- DIN-Rail Mount



Applications

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

I/O Specifications

Digital Input	
Input Channel	8
Wet Contact (Sink/Source)	On Voltage Level: +3.5 V _{DC} ~ +30 V _{DC} Off Voltage Level: +1 V _{DC} max.
Input Impedance	3 kΩ, 0.33 W
Counter	Channels: 8
	Max. Counts: 16-bit (65535)
	Max. Input Frequency: 100 Hz Min. Pulse Width: 5 ms
Intra-module Isolated, Field to Logic	3750 V _{rms}
ESD Protection	+/-4 kV (Contact for each channel)

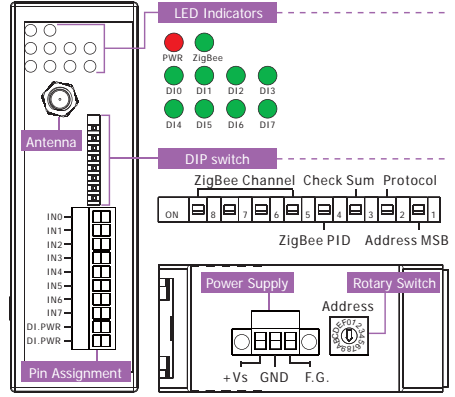
System Specifications

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
Digital Input	8 LEDs, green
Power	
Power Consumption	1 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

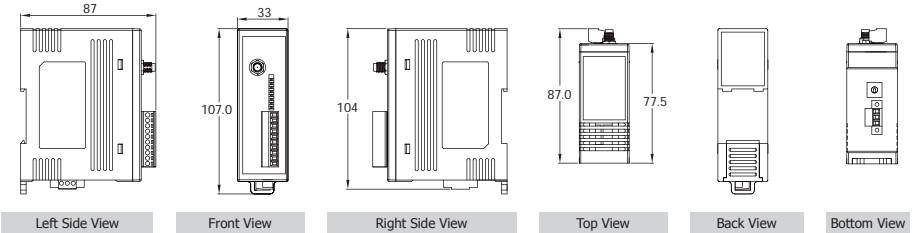
Wiring

Input Type	ON State LED ON Readback as 1 Voltage > 3.5V	OFF State LED OFF Readback as 0 Voltage < 1V
TTL/ CMOS Logic		
Relay Contact		
Open Collector		

Appearance



Dimensions (Unit: mm)



Ordering Information

ZB-2052-T CR	Wireless 8-ch Isolated Digital Input Module with 16-bit Counters (RoHS)
Important Note: The ZigBee AIO modules need a ZB-2570 to coordinate the data transmission route, please remember to also order a ZB-2570 when you purchase the ZB DIO 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)