



## ZB-2060-T

Wireless 6-ch Isolated Digital Input and 4-ch Relay Output Module

### Introduction

The ZB-2060-T offers 4-ch form A power relay outputs and 6-ch 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-2060-T not only has 10 LED indicators for channel status but also get qualification for 4 kV ESD protection and 3000 V<sub>oc</sub> intra-module isolation. Users can be easy to configure the module address, Protocol, Checksum, ZB-PID and ZB-ch by rotary and DIP switch.

### I/O Specifications

Digital Input		
Input Channel	6	
Input Type	Isolated, Wet Contact (Sink/Source)	
Input Level	On Voltage Level: +3.5 V <sub>oc</sub> ~ +30 V <sub>oc</sub> Off Voltage Level: +1 V <sub>oc</sub> max.	
Input Impedance	3 kΩ, 0.33 W	
Counters	Channels: 6	
	Max. Count: 16-bit (65535)	
	Max. Input Frequency: 100 Hz	
	Min. Pulse Width: 5 ms	
Relay Output		
Output Channel	4	
Output Type	Power Relay, Form A	
Contact Rating	5 A @ (250 V <sub>AC</sub> /30 V <sub>DC</sub> )	
Max. Contact voltage	270 V <sub>AC</sub> /125 V <sub>DC</sub>	
Operate Time	10 ms max. at rated voltage	
Release Time	5 ms max. at rated voltage	
Endurance	Electrically	Resistive Load: 100,000 ops. min. (10 ops/minute)
	Mechanically	At No Load: 20,000,000 ops. min. 300 ops/minute)
Dielectric Strength	Between Contacts	750 V <sub>AC</sub> for 1 minute
	Between Coil to Contacts	3,000 V <sub>AC</sub> for 1 minute
Insulation Resistance	5,080 V (1.2/50 μs)	
Surge Strength	5 ms max. at rated voltage	
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 (ZB-2550P/ZB-2570P)
- Wireless Transmission Range up to 100 m (ZB-2550/ZB-2570)
- GUI Configuration Software (Windows Version)
- 6 Digital Input & 4 Relay Output
- 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.

### System Specifications

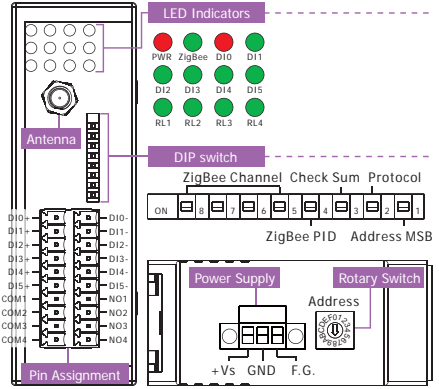
Communication Interface	
Wireless	ZigBee, IEEE 802.15.4 Standard
Antenna	2.4 GHz-3 dBi Omni-Directional antenna
Protocols	Supports DCON and Modbus RTU Protocols
Hot Swap	By Rotary and DIP switch
LED Indicators	
Power	1 LED, red
ZigBee Communication	1 LED, green
Digital Input & Output	10 LEDs, green
Power	
Power Consumption	1.2 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

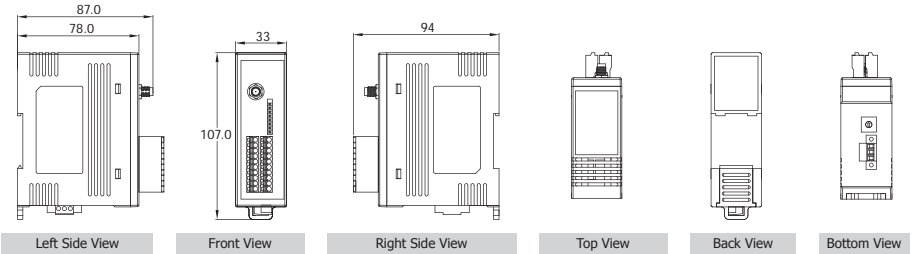
Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
TTL/ CMOS Logic	Voltage > 3.5V	Voltage < 1V
Relay Contact	Relay ON	Relay OFF
Open Collector	Open Collector ON	Open Collector OFF

Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Relay Contact	Relay ON	Relay OFF

Appearance



Dimensions (Unit: mm)



Ordering Information

ZB-2060-T CR	Wireless 6-ch Isolated Digital Input and 4-ch Relay Output Module (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)