

ZT-2060

ZigBee Wireless 6-ch Isolated DI and 4-ch Power Relay Module (ZigBee Router)(Asia Only)

Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4G IEEE 802.15.4 / ZigBee Specifications
- Wireless Transmission Range up to 700 m (Default)
- Adjustable RF Transmission Output Power
- External DIP and Rotary Switches for easy Configuration
- GUI Configuration Software (Windows Version)
- Supports AES-128 Encryption for the Wireless Communication (Passive)
- Supports ZigBee Repeater Function
- 6 Digital Input Channels and 4 Relay Output Channels
- All Channels Can Be Used As 16-bit Counters
- ESD and Surge Protection
- Configurable Power-on Value and Safe Value Settings

Introduction

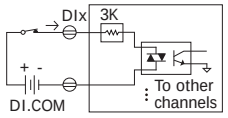
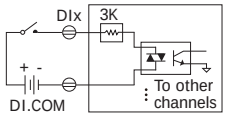
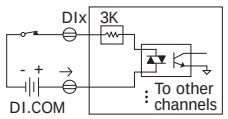
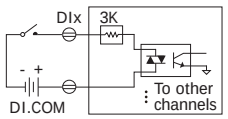
The ZT-2060 offers 4 Form A power relay output channels and 6 digital input channels, each of which features photocouple isolation. In addition, you can choose sink-type or source-type input via wire connections. Digital input channels are able to be used as 16-bit counters and Relay channels are options for configuring power-on and safe digital output values The ZT-2060 has 10 LED indicators to display the channel status, and has 4 kV ESD protection and 3000 VDC intra-module isolation. Users can easily configure the module address, protocol, checksum, ZB-PID and ZB-channel settings using a combination of rotary and DIP switches.

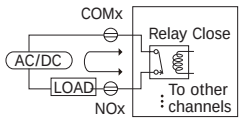
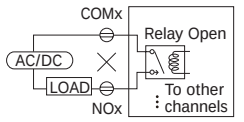
Specifications

CPU Module	
Watchdog Timer	Yes, Module (1.6 Seconds), Communication (Programmable)
Isolation	
Intra-module Isolation	2500 VDC
EMS Protection	
EFT (IEC 61000-4-4)	4 kV for Power Line
ESD (IEC 61000-4-2)	4 kV Contact for Power Line, Communication Line and each Channel, 8 kV Air for Random Point
Surge (IEC 61000-4-5)	3 kV for Power Line
LED Indicators	
Status	1 x Power and Communication 6x Digital Input 4 x Digital Output
ZigBee	
Antenna	2.4 GHz, 5 Omni-Directional
Max. Slaves	255
Protocol	Supports DCON and Modbus RTU Protocols
Standard	ZigBee 2007 Pro
Transmission Power	10 dBm to 19 dBm (EIRP) (Adjustable via Utility)
Transmission Distance (LoS)	300 m to 700 m (Depending on the RF power setting)
Digital Input	
Channels	6
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink/Source
ON Voltage Level	Wet: +3.5 VDC ~ +30 VDC
OFF Voltage Level	Wet: Max. +1 VDC
Input Impedance	3 kΩ, 0.33 W
Digital Input/Counter	
Channels	6
Max. Counts	16-bit (65535)
Frequency	100 Hz Max.
Min. Pulse Width	5 ms
Relay Output	
Channels	4
Type	Power Relay, Form A (SPST N.O)
Contact Rating	5 A @ (250 VAC/30 VDC)
Operate Time	10 ms
Release Time	5 ms
Electrical Endurance	100,000 ops
Mechanical Endurance	20,000,000 ops at no load (300 ops/minute)
Power on Value	Yes, Programmable
Safe Value	Yes, Programmable
Power	
Input Range	+10 VDC ~ +30 VDC
Consumption	Max. 1.4 W
Mechanical	
Dimensions (mm)	33 x 96 x 110 (W x L x H)
Installation	DIN-Rail
Environment	
Operating Temperature	-25 °C ~ +75 °C
Storage Temperature	-30 °C ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

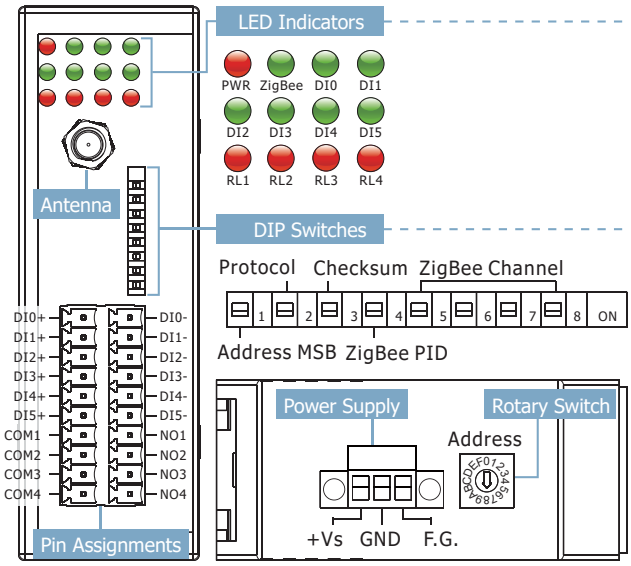
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Wire Connections

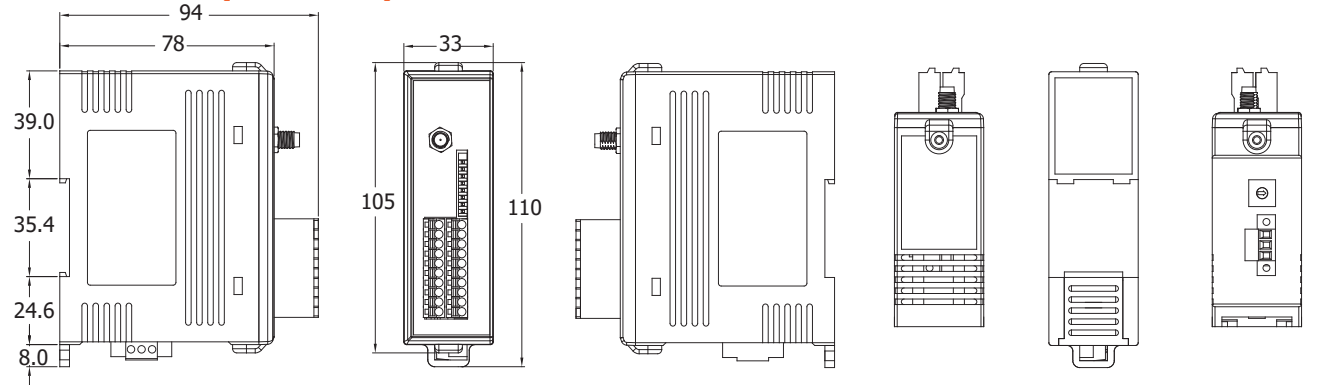
Digital Input/ Counter	ON State Readback as 1	OFF State Readback as 0
Sink	+3.5 ~ +30 VDC	OPEN or <1 VDC
		
Source	+3.5 ~ +30 VDC	OPEN or <1 VDC
		

Power Relay	ON State Readback as 1	OFF State Readback as 0
Relay Output		

Appearance



Dimensions (Units: mm)



Left Side View | Front View | Right Side View | Top View | Rear View | Bottom View

Ordering Information

ZT-2060 CR	ZigBee Wireless 6-ch Isolated DI and 4-ch Power Relay Module (ZigBee Router) (RoHS)(Asia Only)

Important Note: ZigBee Data Acquisition modules need a ZigBee host converter to coordinate the data transmission route. Please remember to order a ZT-2550 or 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)
External Antenna	2.4 GHz External Antenna, RP SMA Male (Plug)
Extension Cable	3S00x-1, RG58A/U × Meter Long RP-SMA (male) to RP-SMA (female)

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