

ZT-2060-IOP

ZigBee I/O Pair-connection Module with the 4-channel Isolated Digital Input and 4-channel Relay Output (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
- Automatic 4 Channels Pair-connection of the Digital Input and Relay Output
- DO Safe Value setting for Wireless Disconnection Monitoring
- Configurable I/O Pairing Number
- Surge and ESD Protection
- Supports AES-128 Encryption for the Wireless Communication
- DIN-Rail Mountable

Introduction

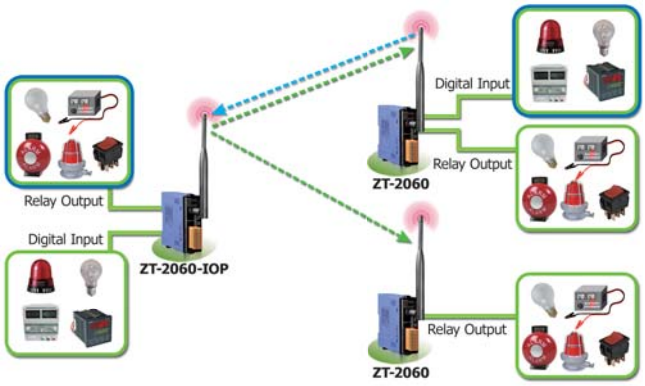
The ZT-2060-IOP module is a ZigBee coordinator that provides both 4-channel digital input and 4-channel digital output. An embedded I/O channel binding function means that there is no need to use an external controller. The status of each channel is bound to a remote channel of the ZT-2060. The ZT-2060-IOP continually updates the status of the DO channel of the remote ZT-2060 based on its own DI channels. It also reads the status of the DI channel of the remote ZT-2060 to synchronize its own DO channels. The ZT-2060-IOP also provides external DIP switches for easy Configuration, which can be used to synchronize the digital signals in any difficult wiring environment.

Specifications

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
LED Indicators	
Status	1 x Power 1 x Communication 8 x Digital Input 8 x Digital Output
ZigBee	
Antenna	2.4 GHz, 5 Omni-Directional
Max. Slaves	255
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	4
Type	Isolated, 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
Relay Output	
Channels	4
Type	Power Relay, Form A
Contact Rating	5 A @ (250 VAC/30 VDC)
Operate Time	Max. 10 ms at Rated Voltage
Release Time	Max. 5 ms at Rated Voltage
Electrical Endurance	Resistive Load: 100,000 ops. min. (10 ops/minute)
Mechanical Endurance	At No Load: 20,000,000 ops. min. (300 ops/minute)
Power	
Input Range	+10 VDC ~ +30 VDC
Consumption	Max. 1.4 W
Mechanical	
Dimensions (mm)	33 x 94 x 110 (W x L x H)
Installation	DIN-Rail
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-30 °C ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

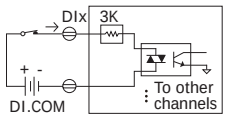
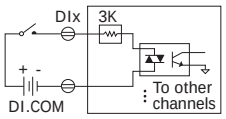
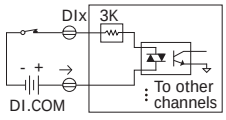
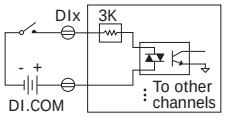
Applications

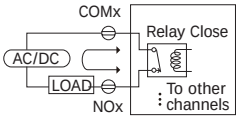
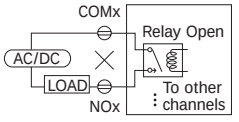
Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.



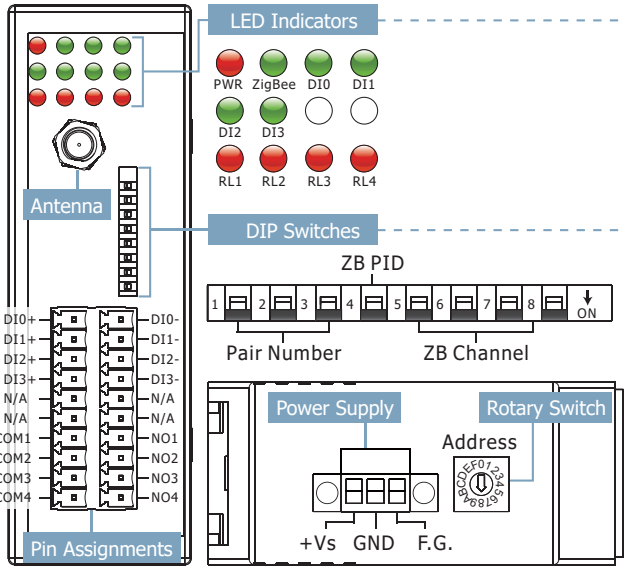
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Wire Connections

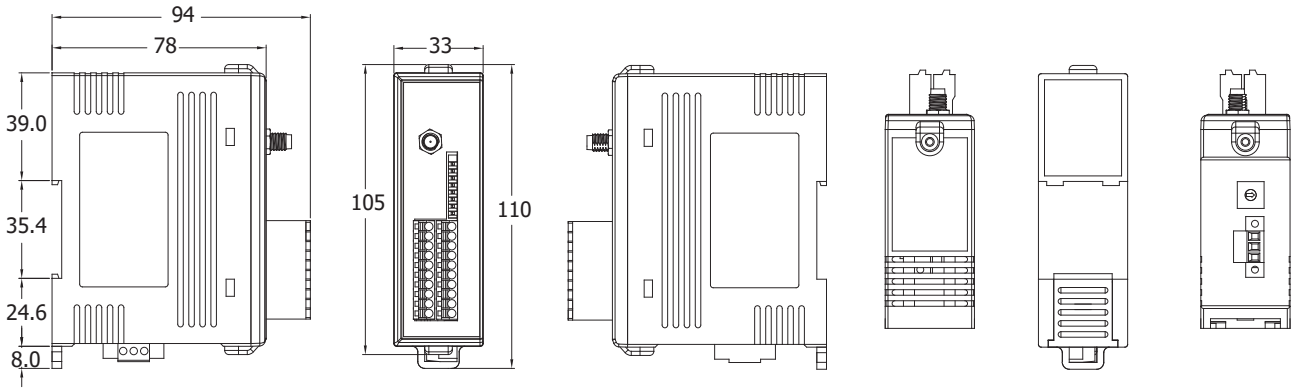
Digital Input	ON State Readback as 1	OFF State Readback as 0
Sink	+3.5 ~ +30 VDC	OPEN or <1 VDC
		
Source	+3.5 ~ +30 VDC	OPEN or <1 VDC
		

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-IOP CR	ZigBee I/O Pair-connection Module with 4-ch Isolated DI and 4-ch Power Relay (ZigBee Coordinator) (RoHS) (Asia Only)

Important Note: ZigBee Pair-connection module is a ZigBee host to coordinate the ZigBee I/O module. Please order at least one ZT-2000 digital series module to work for ZigBee I/O pairing.

Accessories

ZT-USBC CR	USB to ZigBee Converter (ZigBee Full-function) (RoHS)
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)

Important Note: The default pairing setting of ZT-2060-IOP is paired with the ZT-2060. If there is any pairing requirement with other ZigBee I/O modules, a ZigBee converter is required for doing the software configuration.

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