

ZT-2060-IOG

ZigBee I/O Group (Pair-connection) Module with 6-ch Isolated DI and 4-ch Power Relay (Full-function)(Asia Only)

Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4G IEEE 802.15.4/ZigBee Specifications
- Supports AES-128 Encryption for the Wireless Communication
- Wireless Transmission Range up to 700 m (Default)
- Adjustable RF Transmission Output Power
- Physical Pair-connection Channels of 6 Digital Input and 4 Relay Output
- 280 Logical Pair-connection Channels Supported
- Configurable I/O Pairing Relationship
- DO Safe Value Setting for Wireless Disconnection Monitoring
- Surge and ESD Protection
- DIN-Rail Mountable

Introduction

ZT-20xx-IOG series (referred to as ZT-IOG) is a series of ZigBee wireless communication module with Digital Input and Digital Output channels. The "IOG" in the ZT-IOG is the abbreviation for the I/O Group and means the multi-to-multi Pair-connection I/O modules. The ZT-2060-IOG module is one of the ZT-20xx-IOG series that provides both 6 digital input channels and 4 relay output channels. User can easily configure it as either a ZigBee Coordinator or a ZigBee Router via the external switches. The ZigBee Coordinator will serve as a message processing and distribution center. In other words, as long as any DI of any ZT-IOG module changes its channel state, it will immediately trigger an event and upload it to the ZigBee Coordinator for I/O updating logic calculations to determine the DO output states of the ZT-IOG system. Then, the ZigBee Coordinator will broadcast a message periodically to all ZT-IOG ZigBee Router modules for synchronizing all DO channel states to achieve the multi-to-multi I/O Pair-connection function.

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 and Communication 4 x Relay 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	6
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

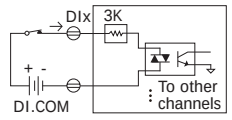
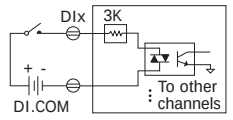
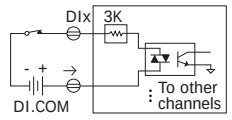
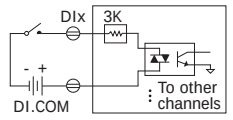
Applications

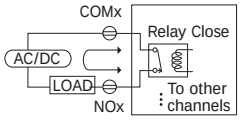
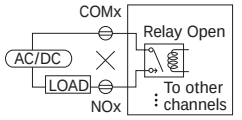


Contact Rating	5 A @ (250 VAC/30 VDC)
Release Time	Max. 5 ms at Rated Voltage
Electrical Endurance	Resistive Load: 100,000 ops. min. (10 ops/minute)
Mechanical Endurance	At No Load: 20,000,000 ops. min. (300 ops/minute)
Power	
Input Range	+10 VDC ~ +30 VDC
Consumption	Max. 1.4 W
Mechanical	
Dimensions (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

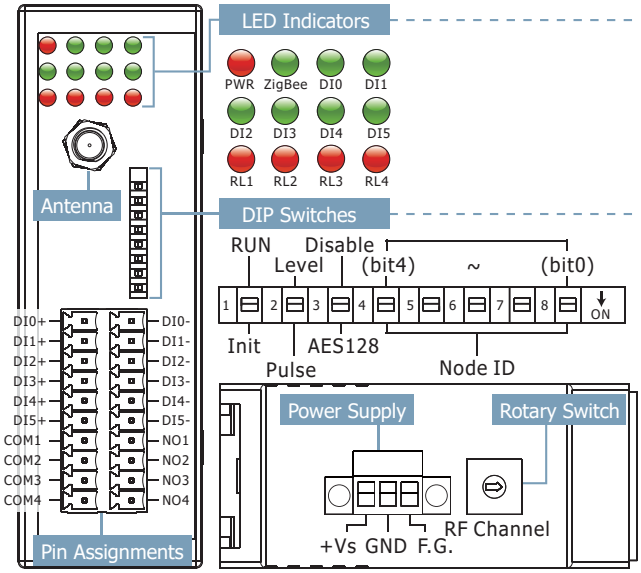
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Wire Connections

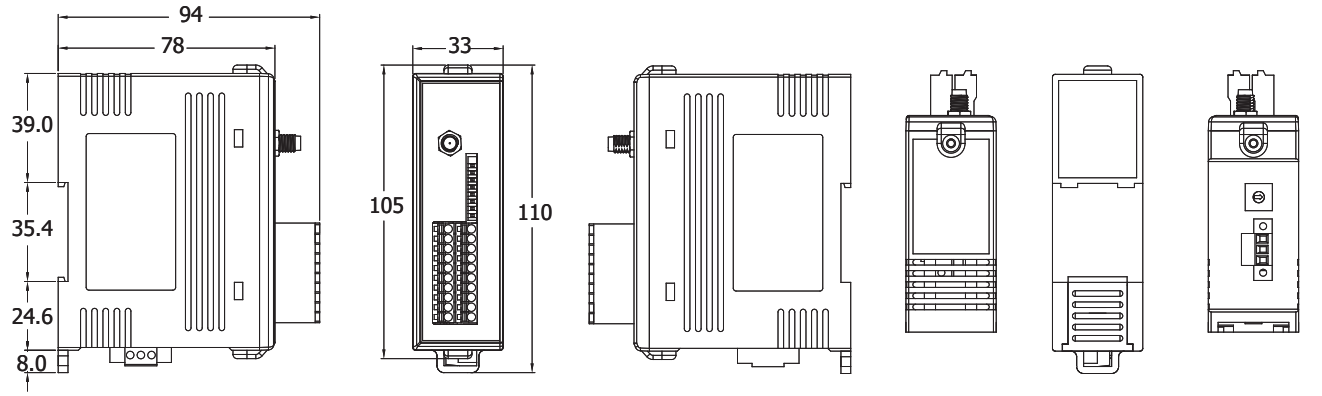
Digital Input/ Counter	ON State Readback as 1	OFF State Readback as 0
Sink	+3.5 ~ +30 VDC	OPEN or <1 VDC
		
Source	+3.5 ~ +30 VDC	OPEN or <1 VDC
		

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-IOG CR	ZigBee I/O Group (Pair-connection) Module with 6-ch Isolated DI and 4-ch Power Relay (Full-function) (RoHS) (Asia Only)

Important Note: If there is any requirement to do the advanced configuration, please remember to order at least one ZT-USBC or ZT-2570 ZigBee converter.

Accessories

MDR-20-24	24 VDC/1.0 A, 24 W Power Supply with DIN-Rail Mounting
ZT-2510 CR	ZigBee Repeater (RoHS)
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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