



ZigBee I/O Group (Pair-connection) Module with the 6-channel Isolated Digital Input and 4-channel Relay Output

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

System Specifications -

Communication Interface				
Wireless Standards	ZigBee 2007 Pro			
Transmission Power	11 dBm (Default, FCC Certificated)			
	(Max 19 dBm)			
Antenna	2.4 GHz - 5 dBi Omni-directional Antenna			
Transmission Range (LoS)	700 m (Typical)			
Max. Slaves in a ZigBee Network	255			
LED Indicators				
Power	1 LED, Red			
ZigBee Communication	1 LED, Green			
Digital Input and Output	6 Green LEDs for Digital Input 4 Red LEDs for Relay Output			
Isolation				
Intra-module Isolated, Field-to-Logic	2500 VDC			
EMS Protection				
	±4 kV Contact for Power Line,			
ESD (IEC 61000-4-2)	Communication Line and each Channel, ±8 kV Air for Random Point			
EFT (IEC 61000-4-4)	±4 kV for Power Line			
Power				
Input Voltage Range	+10 VDC ~ +30 VDC			
Power Consumption	1.4 W Max.			
Mechanical				
Flammability	Fire Retardant Materials (UL94-V0 Level)			
Dimensions (L x W x H)	94 mm x 33 mm x 110 mm			
Installation	DIN-Rail			
Environment				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-30 ∼ +80°C			
Relative Humidity	10 ~ 90% RH, Non-condensing			

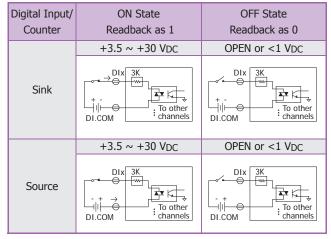
Applications .

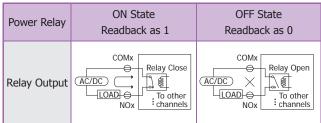


■ I/O Specifications

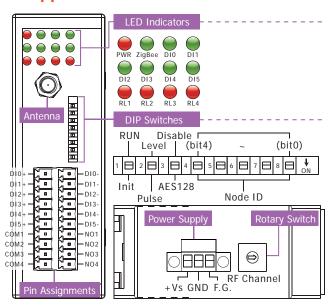
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Digita	ıl Inp	out	
Input Channels		nels	6
Input Types		5	Isolated, Wet Contact (Sink/Source)
Input Level	On ۱	Voltage Level	+3.5 VDC ~ +30 VDC
	Off	Voltage Leve	+1 V _{DC} Max.
Input Impedance		dance	3 kΩ, 0.33 W
Relay Output			
Output Channels		nnels	4
Output Types		es	Power Relay, Form A
Contact Rating		ting	5 A @ (250 VAC/30 VDC)
Max. Contact Voltage		ct Voltage	270 VAC/125 VDC
Release Time		ne	5 ms Max. at Rated Voltage
Endurance	2000	Electrical	Resistive Load: 100,000 ops. min. (10 ops/minute)
	ance	Mechanical	At No Load: 20,000,000 ops. min. (300 ops/minute)
Insulation Resistance		Resistance	Min. 1000M Ω at 500 VDC
Surge Strength		ngth	5,080 V (1.2 / 50 us)

Wiring _

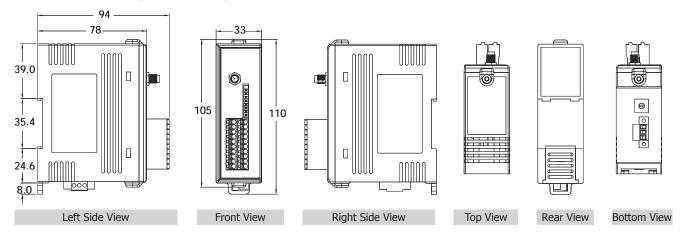




■ Appearance ___



■ Dimensions (Units: mm) -



Ordering Information _

ZT-2060-IOG CR ZigBee I/O Group (Pair-connection) Module with the 6-channel Isolated Digital Input and 4-channel Relay Output (Full-function) (RoHS)

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 ______

ZT-USBC CR	USB to ZigBee Converter (ZigBee Full-function) (RoHS)	
ZT-2570 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host, ZigBee Coordinator) (RoHS)	
ZT-2510 CR	ZigBee Repeater (Slave, ZigBee Router) (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)	