

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 _

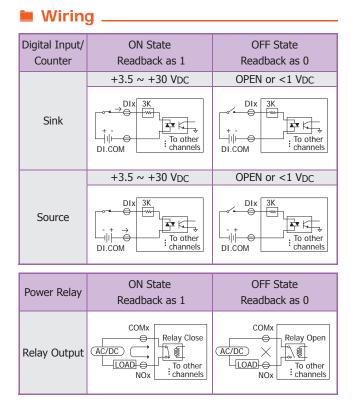
Communication Interface			
Wireless Standards	ZigBee 2007 Pro		
Transmission Power	11 dBm (Default, FCC Certificated);		
	19 dBm (Max.)		
2.4 GHz Antenna	5 dBi Omni directional		
Transmission Range (LoS)	700 m (Typical)		
Max. Slaves in a ZigBee Network	255		
LED Indicators			
Power	1 LED, Red		
ZigBee Communication	1 LED, Green		
Digital Input and Output	6 Green LEDs for Digital Input		
	4 Red LEDs for Relay Output		
Isolation			
Intra-module Isolated,	2500 VDC		
Field-to-Logic	2000 (DC		
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℃		
Storage Temperature	-30 ~ +80°C		
Relative Humidity	10 ~ 90% RH, Non-condensing		

Applications _

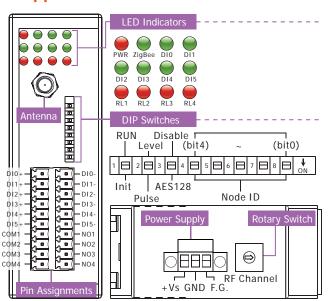


I/O Specifications

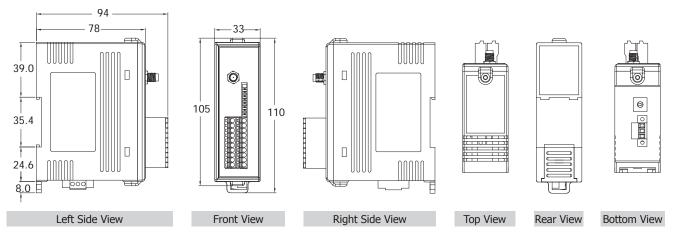
Digital Input			
Input Channels		6	
Input Types		Isolated, Wet Contact (Sink/Source)	
Input Or	On Voltage Leve	+3.5 VDC ~ +30 VDC	
Level	Off Voltage Leve	+1 VDC Max.	
Input Impedance		3 kΩ, 0.33 W	
Relay Output			
Output Channels		4	
Output Types		Power Relay, Form A	
Contact Rating		5 A @ (250 VAC/30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



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 (ZigBee Coordinator & ZigBee Router)(RoHS)
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-2570 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host, ZigBee Coordinator) (RoHS)
ZT-USBC	USB to ZigBee Converter (RoHS)
ZT-2510 CR	ZigBee Repeater (Slave, ZigBee Router) (RoHS)
External Antenna	2.4GHz External Antenna, RP SMA Male (Plug)
Extension Cable	3S00x-1, RG58A/U x Meter Long RP-SMA male to RP-SMA Female