



### ZT-2060-IOP ZigBee Pair-connection to the 4-ch Isolated Digital Input

and 4-ch Relay Output Module

# 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.

# System Specifications \_

Communication Interface		
Wireless Standards	ZigBee 2007 Pro	
Transmission Power	11 dBm (FCC Certificated)	
2.4 GHz Antenna	5 dBi Omni directional	
Transmission Range (LoS)	700 m (Typical)	
Certification	CE/FCC, FCC ID	
Max. Slaves in a ZigBee Network	255	
Hot Swap	Rotary and DIP switch	
LED Indicators		
Power	1 LED, Red	
ZigBee Communication	1 LED, Green	
Digital Input and Output	4 Green LEDs for Digital Input 4 Red LEDs for Relay Output	
Isolation		
Intra-module Isolated, Field-to-Logic	2500 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	4 kV Contact for Power Line, 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 (W x L x H)	33 mm x 94 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	

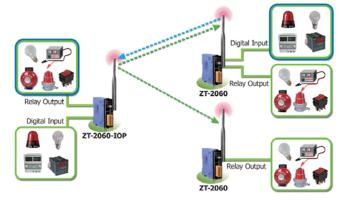
### Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4G IEEE 802.15.4/ZigBee Specifications
- Wireless Transmission Range up to 700 m
- 4 Channels Pair-connection of the Digital Input and Relay Output
- Surge and ESD Protection
- DIN-Rail Mountable

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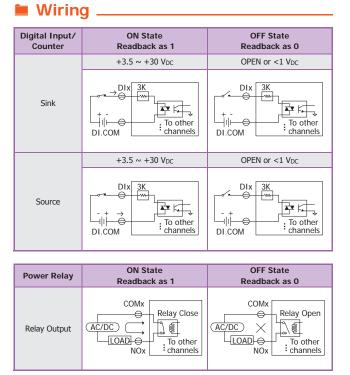
#### Applications.

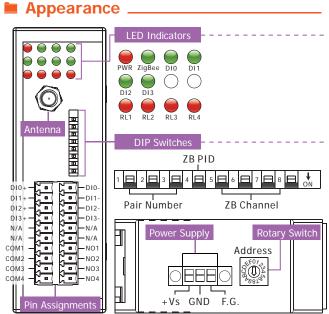
Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.



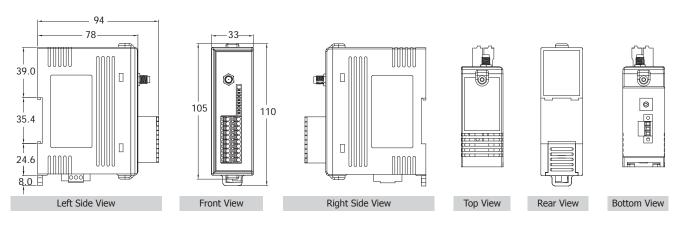
# I/O Specifications .

Digital I	Digital Input			
Input Channels		6		
Input Types		Isolated, Wet Contact (Sink/Source)		
Input Level	On Voltage Level	+3.5 VDC ~ +30 VDC		
	Off Voltage Leve	+1 VDC Max.		
Input Impedance		3 kΩ, 0.33 W		
	Channels	6		
	Max. Count	16-bit (65535)		
Counter	Max. Input Frequency	100 Hz		
	Min. Pulse Width	5 ms		
Relay O	utput			
Output C	nannels	4		
Output Ty	/pes	Power Relay, Form A		
Contact Rating		5 A @ (250 VAC/30 VDC)		
Max. Contact Voltage		270 VAC/125 VDC		
Operate 7	lime	10 ms max. at Rated Voltage		
Release Time		5 ms max. at Rated Voltage		
Enduranc	Electrical	Resistive Load: 100,000 ops. min. (10 ops/minute)		
	Mechanical	At No Load: 20,000,000 ops. min. (300 ops/minute)		
Dielectric	Between Contacts	750 VAC for 1 minute		
Strength	Between Coil to Contacts	3,000 VAC for 1 minute		
Insulation Resistance		5,080 V (1.2/50 μs)		
Surge Strength		5 ms max. at Rated Voltage		
ESD Protection		+/-4 kV contact for each channel		





### Dimensions (Units: mm) \_\_\_\_\_



### Ordering Information \_\_\_\_\_

ZT-2060-IOP CR	ZigBee Pair-connection to the 4-ch Isolated Digital Input and 4-ch Relay Output Module (Host, ZigBee Coordinator) (RoHS)
ZT-2060 CR	ZigBee 6-ch Isolated Digital Input and 4-ch Relay Output Module (Slave, ZigBee Router) (RoHS)
Important Note: ZigBee Pair-connection module is a ZigBee host to coordinate the ZigBee I/O module. Please remember to order at least one ZT-2060 module as the ZigBee I/O pairing.	

### Accessories \_\_\_\_\_

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