



## 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

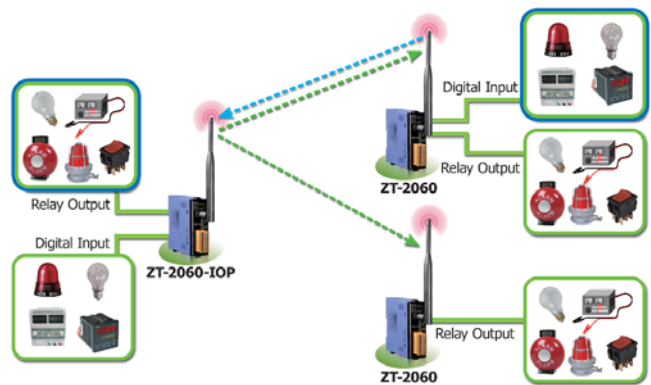
### Features

- 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



### Applications

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



### I/O Specifications

Digital Input		
Input Channels	4	
Input Types	Isolated, Wet Contact (Sink/Source)	
Input Level	On Voltage Level	+3.5 Vdc ~ +30 Vdc
	Off Voltage Level	+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	
Operate Time	10 ms max. at Rated Voltage	
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)
Dielectric Strength	Between Contacts	750 VAC for 1 minute
	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	

