



■ 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 (Default)
- Adjustable RF Transmission Output Power
- 8 Channels Pair-connection of the Digital Input
- DO Safe Value setting for Wireless Disconnection Monitoring
- Configurable I/O Pairing Number
- Surge and ESD Protection
- Supports AES-128 Encryption for the Wireless Communication
- DIN-Rail Mountable









Introduction _

The ZT-2052-IOP module acts as a ZigBee coordinator that provides 8-channel digital input pair-connection function with module of ZT-2042 (4-ch PhotoMOS Relay Output and 4-ch Open Collector). An embedded I/O channel binding function means that there is no need to use an external controller.

The status of each ZT-2052-IOP channel triggers the corresponding remote digital output channels on the ZT-2042 module. The ZT-2052-IOP continually transmits updates on the status of the digital input channels to the remote ZT-2042 to ensure that the digital output channels are synchronized.

The ZT-2052-IOP also provides external DIP and Rotary switches for easy configuration, which can be used to synchronize the digital signals in any environment where wiring is difficult.

System Specifications ____

Communication Interfa	ommunication Interface		
Wireless Standards	ZigBee 2007 Pro		
Transmission Power	11 dBm (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 / Debug	1 Red LED, ZigBee Device Power Indicator		
ZigBee Communication	1 Green LED, ZigBee Communication Indicator		
Digital Input and Output	8 Green LED, Digital Input Channel Indicators		
Power			
Input Voltage Range	+10 VDC ~ +30 VDC		
Power Consumption	1 W Max.		
Mechanical			
Flammability	Fire Retardant Materials (UL 94V-0 Level)		
Dimensions (L \times W \times H)	88 mm × 33 mm × 110 mm		
Installation	DIN-Rail		
Environment			
Operating Temperature	-25 ~ +75°C		
Storage Temperature	-30 ∼ +80°C		
Relative Humidity	10 ~ 90% RH, Non-condensing		

Applications __

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



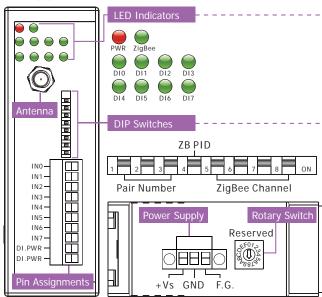
I/O Specifications -

Digital Input		
Input Channels		8
Wet Contact	On Voltage Level	+3.5 VDC ~ +30 VDC
(Sink/Source)	Off Voltage Level	+1 VDC Max.
Input Impedance		3 kΩ, 0.33 W
Intra-module Isolated, Field-to-Logic		3000 VDC
ESD Protection		±4 kV contact for each channel

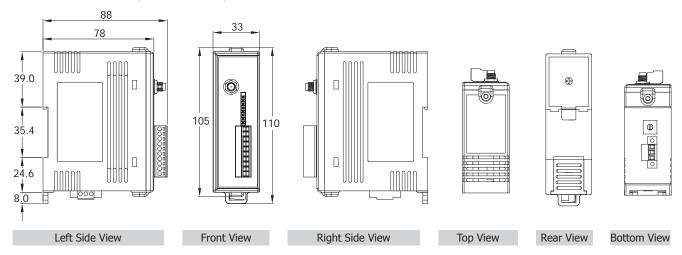
■ Wiring ______

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Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0			
	Voltage > 3.5V	Voltage < 1V			
TTL/ CMOS Logic	Logic Level High Logic GND Di.PWR	Logic Evel Low Logic GND Diplomatical Discrete Control of the Co			
	Relay ON	Relay OFF			
Relay Contact	+ DI.PWR	+ DH.PWR Relay Open DI.PWR			
	Open Collector ON	Open Collector OFF			
Open Collector	ON THE DESCRIPTION OF THE PROPERTY OF THE PROP				

Appearance _____



■ Dimensions (Units: mm) _____



Ordering Information ______

	ZT-2052-IOP CR	ZigBee Pair-connection to the 8-ch Isolated Digital Input Module (Host, ZigBee Coordinator) (RoHS)
	ZT-2042 CR	ZigBee 4-ch PhotoMOS Relay Output and 4-ch Open Collector Output Module (Slave, ZigBee Router) (RoHS)
	ZT-2043 CR	ZigBee 14-ch Isolated Digital Output Module (Slave, ZigBee Router) (RoHS)
	ZT-2055 CR	ZigBee 8-channel Isolated Digital Input and 8-channel Isolated Digital Output Module (Slave, ZigBee Router) (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 order at least		igBee Pair-connection module is a ZigBee host to coordinate the ZigBee I/O module. Please order at least one

Important Note: ZigBee Pair-connection module is a ZigBee host to coordinate the ZigBee I/O module. Please order at least one ZT-2000 digital series module to work for ZigBee I/O pairing.

Accessories ______

I was extent Note. The default pairing cetting of ZT 2002 IOD is paired with the ZT 2002. If there is any pairing requirement with a	
ZT-2510 CR	ZigBee Repeater (Slave, ZigBee Router) (RoHS)
ZT-2550 CR	RS-485/RS-232 to ZigBee Converter (Host)
ZT-2570 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host, ZigBee Coordinator) (RoHS)
ZT-USBC CR	USB to ZigBee Converter (ZigBee Full-function) (RoHS)

Important Note: The default pairing setting of ZT-2052-IOP is paired with the ZT-2042. If there is any pairing requirement with other ZigBee I/O modules, a ZigBee converter is required for doing the software configuration.