

### Introduction \_

The ZT-2053-IOP module acts as a ZigBee coordinator that provides 14-channel digital input pair-connection function with module of ZT-2043 (14-ch sink type digital output). An embedded I/O channel binding function means that there is no need to use an external controller.

The status of each ZT-2053-IOP channel triggers the corresponding remote digital output channels on the ZT-2043 module. The ZT-2053-IOP continually transmits updates on the status of the digital input channels to the remote ZT-2043 to ensure that the digital output channels are synchronized.

The ZT-2053-IOP also provides external DIP switches for easy configuration, which can be used to synchronize the digital signals in any environment where wiring is difficult.

# System Specifications \_\_\_\_\_

Communication Interface	
Wireless Standards	ZigBee 2007 Pro
Transmission Power	11 dBm (FCC Certificated) ( Max 19 dBm)
2.4 GHz Antenna	5 dBi Omni directional
Transmission Range (LoS)	700 m (Typical)
Max. Slaves in a ZigBee Network	255
Hot Swap	DIP Switch
LED Indicators	
Power / Debug	1 Red LED, ZigBee Device Power Indicator
ZigBee Communication	1 Green LED, ZigBee Communication Indicator
Digital Input and Output	14 Green LED, Digital Input Channel Indicators
Isolation	
Intra-module Isolated, Field-to-Logic	3750 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
Surge ( IEC 61000-4-5)	3 kV for Power
Power	
Input Voltage Range	+10 VDC ~ +30 VDC
Power Consumption	0.72 W (Max.)
Mechanical	
Flammability	Fire Retardant Materials (UL94-V0 Level)
Dimensions (W x L x H)	33 mm x 87 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

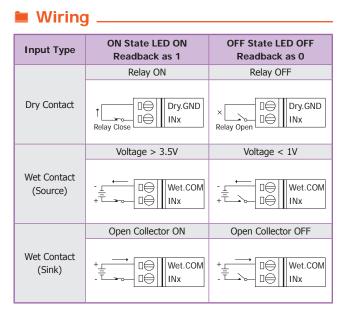
### Applications \_

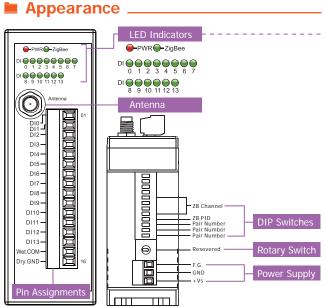
Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.



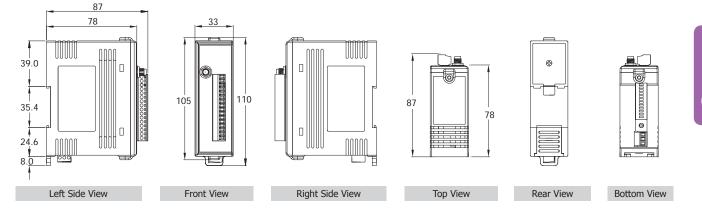
# I/O Specifications \_

Digital Input	
Input Channels	14
Dry Contact (Sink)	On Voltage Level: Close to GND
	Off Voltage Level: Open
	Effective Distance for Dry Contact: 500 m Max.
Wet Contact (Sink/Source)	On Voltage Level: +3.5 VDC ~ +30 VDC
	Off Voltage Level: +1 V <sub>DC</sub> Max.
Input Impedance	3 kΩ, 0.33 W





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



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

	ZT-2053-IOP CR	ZigBee Pair-connection to the 14-ch Isolated Digital Input Module (Host, ZigBee Coordinator) (RoHS)
ZT-2043 CR ZigBee 14-ch Isolated Digital Output Module (Slave, ZigBee Router) (RoHS)		ZigBee 14-ch Isolated Digital 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-2043 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 (Slave, ZigBee Router) (RoHS)