

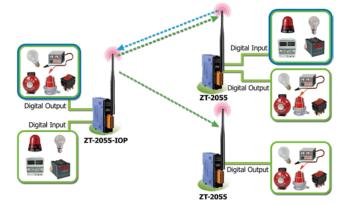
### Introduction .

The ZT-2055-IOP module is a ZigBee coordinator that offers 8 isolated channels for digital input and 8 isolated channels for 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-2055. The ZT-2055-IOP continually updates the status of the DO channel of the remote ZT-2055 based on its own DI channels. It also reads the status of the DI channel of the remote ZT-2055 to synchronize its own DO channels. The ZT-2055-IOP also provides external DIP switches for easy configuration, which can be used to synchronize the digital signals in any difficult wiring environment.

### Applications \_

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

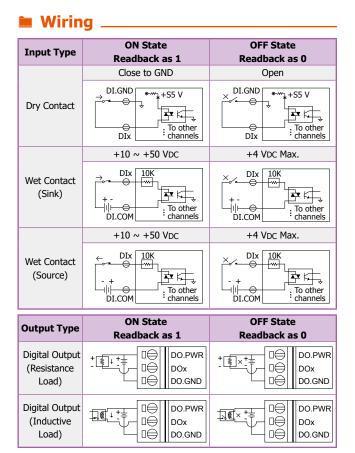


# **I/O Specifications**

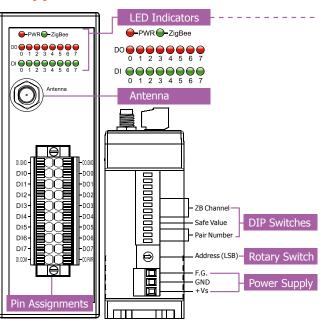
Digital Input/ Counter			
Input Channels		8	
Input Types	Dry Contact	Source	
	Wet Contact	Sink/Source	
Wet Contact	On Voltage Level	+10 VDC ~ +50 VDC	
	Off Voltage Level	+4 VDC Max.	
DryContact	On Voltage Level	Close to GND	
	Off Voltage Level	Open	
Input Impedance		10 ΚΩ	
Overvoltage Protection		±70 VDC	
Digital Output			
Output Channels		8	
Output Types		Open Collector	
Sink/Source(NPN/PNP)		Sink	
Load Voltage		+3.5 ~ 50 VDC	
Max. Load Current		650 mA/Channel	
Overvoltage Protection		60 VDC	
Overload Protection		1.4 A (with short-circuit protection)	

## System Specifications .

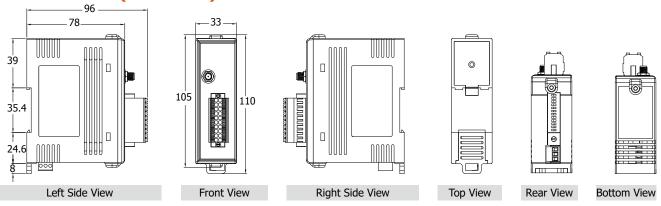
Communication Interface				
Wireless Standards	ZigBee 2007 Pro			
Transmission Power	11 dBm (FCC Certificated) (Max 19 dBm)			
Antenna	2.4 GHz - 5 dBi Omni-directional Antenna			
Transmission Range (LoS)	700 m (Typical)			
Max. Slaves in a ZigBee Network	255			
LED Indicators				
Power	1 LED, Red			
ZigBee Communication	1 LED, Green			
Digital Input and Output	8 Green LEDs for Digital Input 8 Red LEDs for Digital Output			
Isolation				
Intra-module Isolated, Field-to-Logic	2500 VDC			
EMS Protection				
ESD (IEC 61000-4-2)	$\pm$ 4 kV Contact for Power Line, Communication Line and each Channel, $\pm$ 8 kV Air for Random Point			
EFT (IEC 61000-4-4)	±4 kV for Power			
Surge ( IEC 61000-4-5)	±3 kV for Power			
Power				
Input Voltage Range	+10 VDC ~ +30 VDC			
Power Consumption	2.5 W Max.			
Mechanical				
Flammability	Fire Retardant Materials (UL 94V-0 Level)			
Dimensions (L $\times$ W $\times$ H)	96 mm x 33 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			



# Appearance \_\_\_\_



## Dimensions (Units: mm)



## Ordering Information

ZT-2055-IOP CR	ZigBee Pair-connection to the 8-ch Isolated Digital Input and 8-ch Digital Output 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 one ZT-2000 digital series module to work for ZigBee I/O pairing.

#### Accessories \_

ZT-USBC CR	USB to ZigBee Converter (ZigBee Full-function) (RoHS)	
ZT-2570 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host, ZigBee Coordinator) (RoHS)	
ZT-2550 CR	RS-485/RS-232 to ZigBee Converter (Host)	
ZT-2510 CR	ZigBee Repeater (Slave, ZigBee Router) (RoHS)	
<b>Important Note:</b> The default pairing setting of ZT-2055-IOP is paired with the ZT-2055. If there is any pairing requirement with other ZigBee I/O modules, a ZigBee converter is required for doing the software configuration.		