



Introduction _

The ZT-2052 offers 8 digital input channels, each of which features photocouple isolation. In addition, you can choose either sink-type or sourcetype input via wire connections. All channels are able to be used as 16-bit counters. The ZT-2052 has 8 LED indicators to display the channel status and also includes 4 kV ESD protection and 3000 VDC intra-module isolation. Users can easily configure the module address, protocol, checksum, ZB-PID and ZB-channel settings using a combination of rotary and DIP switches.

16-bit Counters

System Specifications —

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Model	ZT-2052	
Communication Interface		
Wireless Standards	ZigBee, IEEE 802.15.4	
Transmission Power	11 dBm	
2.4 GHz Antenna	5 dBi Omni directional	
Transmission Range (LoS)	700 m (Typical)	
	1 km (Max.)	
Certification	-	
Max. Slaves in a ZigBee Network	255	
Protocols	Supports DCON and Modbus RTU Protocols	
Hot Swap	Rotary and DIP switch	
LED Indicators		
Power	1 LED, red	
ZigBee Communication	1 LED, green	
Digital Input	8 LEDs, green	
Power		
Power Consumption	1 W Max.	
Mechanical		
Flammability	Fire Retardant Materials (UL94-V0 Level)	
Dimensions (W x L x H)	33 mm x 88 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	

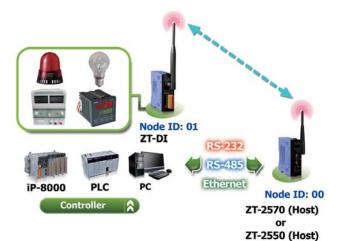
Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4G IEEE 802.15.4/ZigBee Specifications
- Wireless Transmission Range up to 700 m (Default)
- Adjustable RF Transmission Output Power
- GUI Configuration Software (Windows Version)
- Supports AES-128 Encryption for the Wireless Communication (Passive)
- Supports ZigBee Repeater Function
- 8 Wet Contact Digital Input Channels
- Supports 16-bit Counters for Digital Input Channels
- Surge and ESD Protection
- DIN-Rail Mountable



Applications _

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



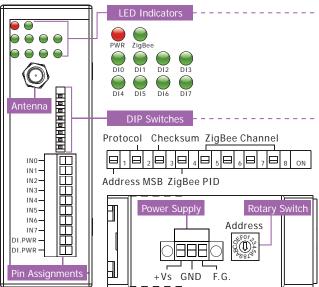
I/O Specifications _____

Model		ZT-2052	
Digital Input			
Input Channels		8	
Wet Contact (Sink/Source)	On Voltage Level:	+3.5 VDC ~ +30 VDC	
	Off Voltage Level	+1 VDC Max.	
Input Impedance		3 kΩ, 0.33 W	
Counter	Channels	8	
	Max. Count	16-bit (65535)	
	Max. Input Frequency	100 Hz	
	Min. Pulse Width	5 ms	
Intra-module Isolation, Field to Logic		3750 V _{rms}	
ESD Protection		+/-4 kV contact for each channel	

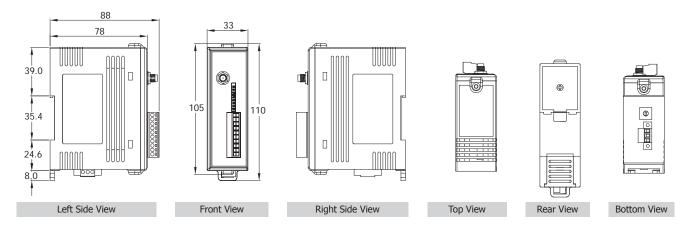
Wiring __

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 INX	Logic Level Low Logic GND Dilpwr INx
	Relay ON	Relay OFF
Relay Contact	+ DI.PWR Relay Close	+ D DI.PWR INx
	Open Collector ON	Open Collector OFF
Open Collector	ON THE DESIGNATION OF THE PROPERTY OF THE PROP	





■ Dimensions (Units: mm) _



Ordering Information -

ZT-2052 CR Wireless 8-channel Isolated Digital Input Module with 16-bit Counters (RoHS)

Important Note: ZigBee Data Acquisition modules need a ZigBee host converter to coordinate the data transmission route. Please remember to order a ZT-2550 or ZT-2570 ZigBee host converter when you purchase ZigBee Data Acquisition Products.

Accessories _____

MDR-20-24	24 VDC/1.0 A, 24 W Power Supply with DIN-Rail Mounting
ZT-2510 CR	ZigBee Repeater (RoHS)
ZT-2550 CR	RS-485/RS-232 to ZigBee Converter (Host)
ZT-2570 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host) (RoHS)

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