

4	🖪 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
	External DIP and Rotary Switches for easy Configuration
	GUI Configuration Software (Windows Version)
	Supports AES-128 Encryption for the Wireless Communication (Passive)
	Supports ZigBee Repeater Function
	6 Digital Input Channels and 4 Relay Output Channels
	All Channels Can Be Used As 16-bit Counters
	ESD and Surge Protection
	Configurable Power-on Value and Safe Value Settings
ZT-2060	DIN-Rail Mountable
Wireless 6-channel Isolated Digital Input and 4-channel Relay Output Module	

#### Introduction

System Specifications

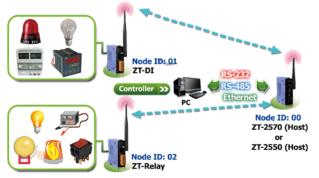
The ZT-2060 offers 4 Form A power relay output channels and 6 digital input channels, each of which features photocouple isolation. In addition, you can choose sink-type or source-type input via wire connections. Digital input channels are able to be used as 16-bit counters and Relay channels are options for configuring power-on and safe digital output values The ZT-2060 has 10

LED indicators to display the channel status, and has 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.

#### **Communication Interface** Wireless Standards ZigBee 2007 Pro 11 dBm (FCC Certificated) (Max 19 dBm) Transmission Power 2.4 GHz - 5 dBi Omni-directional Antenna Antenna Transmission Range (LoS) 700 m (Typical) Max. Slaves in a ZigBee Network 255 Protocols Supports DCON and Modbus RTU Protocols Yes, Module (1.6 Seconds), Communication (Programmable) Dual Watchdog **LED Indicators** 1 LED, Red Power ZigBee Communication 1 LED, Green 6 Green LEDs for Digital Input Digital Input and Output 4 Red LEDs for Relay Output Isolation Intra-module Isolated, Field-to-Logic 3000 VDC **EMS Protection** ±4 kV Contact for Power Line, Communication Line and each Channel, ESD (IEC 61000-4-2) ±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 Vpc ~ +30 Vpc Power Consumption 1.4 W Max. Mechanical Flammability Fire Retardant Materials (UL 94V-0 Level) Dimensions (L $\times$ W $\times$ H) 94 mm x 33 mm x 110 mm DIN-Rail Installation Environment -25 ~ +75°C **Operating Temperature** Storage Temperature -30 ~ +80°C **Relative Humidity** 10 ~ 90% RH, Non-condensing

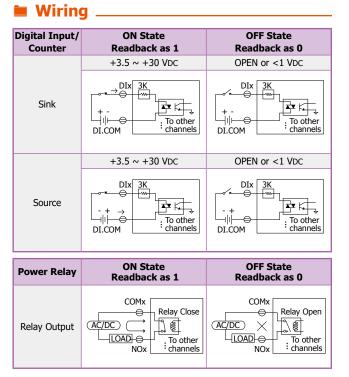
#### Applications

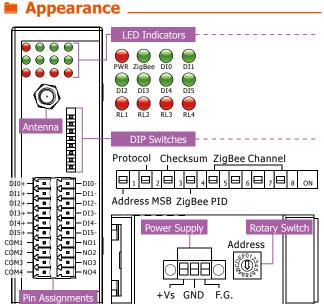
Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.



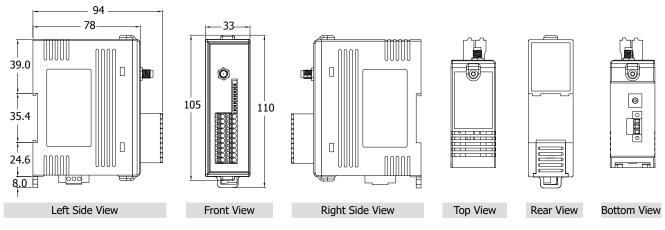
## **I/O Specifications**

Digital Input		
Input Cha	annels	6
Types		Wet Contact (Sink/Source)
On Voltag	je Level	+3.5 VDC ~ +30 VDC
Off Voltag	je Leve	+1 VDC Max.
Input Im	pedance	3 kΩ, 0.33 W
	Channels	6
Counter	Max. Count	16-bit (65535)
Counter	Max. Input Frequency	100 Hz
	Min. Pulse Width	5 ms
Relay O	utput	
Output C	hannels	4
Types		Power Relay, Form A (SPST N.O)
Operating	g Voltage Range	5 A (250 VAC or 30 VDC)
Max. Load Current		270 VAC/125 VDC
Operate Time		10 ms
Release Time		5 ms
Mechanic	al Endurance	2 x 10 <sup>7</sup> ops at no load (300 ops/minute)
Electrical	Endurance	10 <sup>5</sup> ops
Surge Str	ength	3000 VDC
Power-on	Value	Yes, Programmable
Safe Value		Yes, Programmable





# Dimensions (Units: mm)



## Ordering Information

ZT-2060 CRWireless 6-channel Isolated Digital Input and 4-channel Relay Output Module (ZigBee Router) (RoHS)Important Note:ZigBee Data Acquisition modules need a ZigBee host converter to coordinate the data transmission route. Pleaseremember 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)	
External Antenna	2.4 GHz External Antenna, RP SMA Male (Plug)	
Extension Cable	3S00x-1, RG58A/U × Meter Long RP-SMA (male) to RP-SMA (female)	