



Wireless 6-channel Isolated Digital Input and 4-channel Relay Output Module

Introduction _

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.

System Specifications .

| Communication Interface | |
|--|--|
| Wireless Standards | ZigBee 2007 Pro |
| Transmission Power | 11 dBm (FCC Certificated) |
| 2.4 GHz Antenna | 5 dBi Omni directional |
| Transmission Range (LoS) | 700 m (Typical) |
| Certification | CE/FCC, FCC ID |
| Max. Slaves in a ZigBee Network | 255 |
| Protocols | Supports DCON and Modbus RTU Protocols |
| Dual Watchdog | Yes, Module (1.6 Seconds), Communication (Programmable) |
| Hot Swap | Rotary and DIP switch |
| LED Indicators | |
| Power | 1 LED, Red |
| ZigBee Communication | 1 LED, Green |
| Digital Input and Output | 6 Green LEDs for Digital Input 4 Red LEDs for Relay Output |
| Isolation | |
| Intra-module Isolated, Field-to-Logic | 2500 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 Line |
| Power | |
| Input Voltage Range | +10 VDC ~ +30 VDC |
| Power Consumption | 1.4 W Max. |
| Mechanical | |
| Flammability | Fire Retardant Materials (UL94-V0 Level) |
| Dimensions (L x W x H) | 94 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 |

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
- 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
- DIN-Rail Mountable



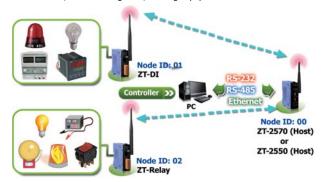






Applications _

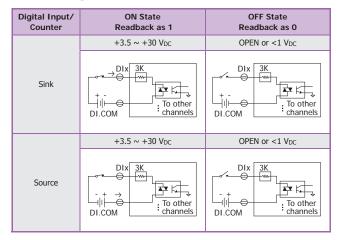
Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.

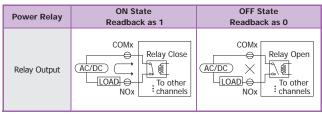


I/O Specifications _

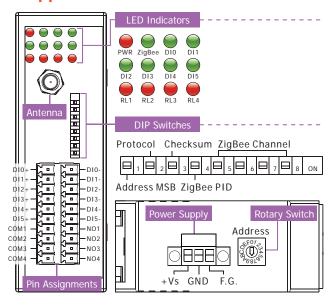
| Digital Input | | |
|-------------------------|----------------------|---|
| Input Ch | annels | 6 |
| Types | | Wet Contact (Sink/Source) |
| On Voltage Level | | +3.5 VDC ~ +30 VDC |
| Off Voltage Leve | | +1 VDC Max. |
| Input Impedance | | 3 kΩ, 0.33 W |
| | Channels | 6 |
| Counter | Max. Count | 16-bit (65535) |
| Counter | Max. Input Frequency | 100 Hz |
| | Min. Pulse Width | 5 ms |
| Relay Output | | |
| Output C | hannels | 4 |
| Types | | Power Relay, Form A (SPST N.O) |
| Operating Voltage Range | | 250 VAC or 30 VDC |
| Max. Load Current | | 5 A |
| Operate Time | | 10 ms |
| Release Time | | 5 ms |
| Mechanical Endurance | | 2 x 10 ⁷ ops at no load (300 ops/minute) |
| Electrical Endurance | | 10 ⁵ ops |
| Surge Strength | | 3000 V _{DC} |
| Power-on Value | | Yes, Programmable |
| Safe Value | | Yes, Programmable |

Wiring .

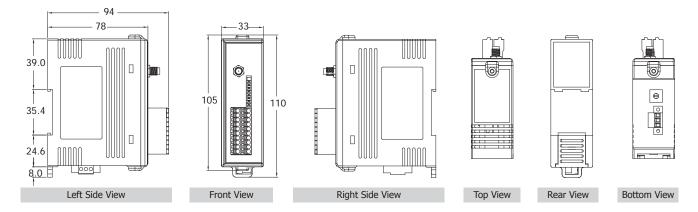




■ Appearance __



■ Dimensions (Units: mm) _



Ordering Information _

ZT-2060 CR Wireless 6-channel Isolated Digital Input and 4-channel Relay Output Module (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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