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Introduction _

The ZT-2042 offers 4 PhotoMOS relay output channels and 4 sink-type digital output channels with short circuit protection. Each channel features photo couple isolation. The ZT-2042 has 8 LED indicators to display the DO channel status. 4kV ESD protection and 3000 VDC intra-module isolation are the standard. Users can easily configure the module address, protocol, checksum, ZB-PID and ZB-channel settings using a combination of rotary and

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)	
Certification	CE/FCC, FCC ID	
Max. Slaves in a ZigBee Network	255	
ZB-100R/ZB-100T Support	-	
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 Output	8 LEDs, red	
Isolation		
Intra-module Isolated, Field-to-Logic	3000 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	
Surge (IEC 61000-4-5)	3 kV for Power	
Power		
Power Consumption	1.32 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	

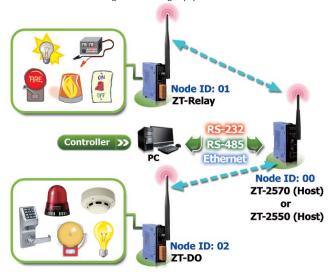
Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4G /ZigBee Specifications
- Wireless Transmission Range up to 700 m
- GUI Configuration Software (Windows Version)
- 4 PhotoMOS Relay Output Channels and 4 Open Collector Digital Output Channels
- Short Circuit Protection
- Surge and ESD Protection
- DIN-Rail Mountable



Applications _

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



I/O Specifications .

Relay Output	
Output Channels	4
Output Types	PhotoMOS Relay, Form A
Load Voltage	60 VDC/VAC
	60 V/1.0 A (Operating Temperature: -25 ~ +40°C)
Max. Load Current	60 V/0.8 A (Operating Temperature: +40 ~ +60°C)
	60 V/0.7 A (Operating Temperature: +60 ~ +75°C)
Power-on Time	5.0 ms
Power-off Time	0.5 ms
Digital Output	
Output Channels	4 (Sink)
Output Types	Isolated Open Collector
Max. Load Current	700 mA/channel
Load Voltage	+5 VDC ~ +50 VDC
Power-off Time	0.5 ms
External Power Reversed Protection and Short Circuit Protection	Yes
Current Limited Protection	1.1 A



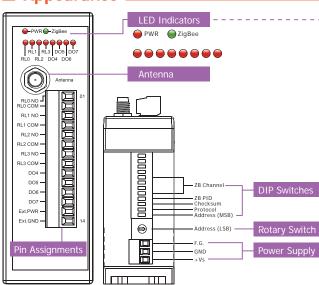
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Wiring _

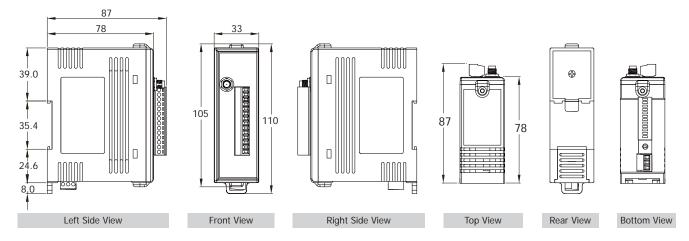
Relay Output	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
From A Relay Contact	Relay ON ACCOO	Relay OFF CODE NOx COMx

Digital Output	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
	Relay ON	Relay OFF
Drive Relay	DO.PWR DOX DO.GND	DO.PWR □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	Relay ON	Relay OFF
Resistance Load	DO.PWR DOX DO.GND	DO.PWR DOX DO.GND

■ Appearance _____



■ Dimensions (Units: mm) _



Ordering Information _

ZT-2042 CR Wireless 4-channel PhotoMOS Relay Output and 4-channel Open Collector Output Module (RoHS) (Long Range)

Important Note: Zigbee Data Acquisition modules need a Zigbee host converter to coordinate the data transmission route. Please remember to order a ZT-2550, 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 High Power Amplifier ZigBee Converter (Host) (RoHS)
ZT-2570 CR	Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS)