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* o	Features
	ISM 2.4 GHz Operating Frequency
	Fully Compliant with 2.4G/ 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
	14 Digital Output Channels for Open Collector
	Short Circuit Protection
	Surge and ESD Protection
	Configurable Power-on Value and Safe Value Settings
	DIN-Rail Mounting
(	EFE (ROHS)

#### **■** Introduction \_

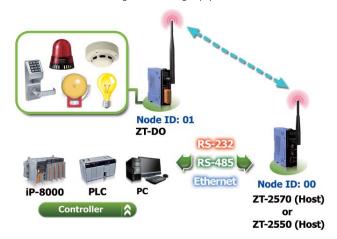
The ZT-2043 offers 14 sink type digital output channels with short circuit protection. All channels feature photo-couple isolation. The ZT-2043 includes 14 LED indicators to display the DO channel status. 4 kV ESD protection and 3750 Vpc intra-module isolation are the standard. Users can easily configure the module address, protocol, checksum, ZB-PID and ZB-channel settings using a combination of rotary and DIP switches.

# System Specifications \_

Communication Interface	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)				
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)				
LED Indicators					
Power	1 LED, Red				
ZigBee Communication	1 LED, Green				
Digital Output	14 LEDs, Red				
Isolation					
Intra-module Isolated, Field-to-Logic	3000 VDC				
EMS Protection					
	±4 kV Contact for Power Line,				
ESD (IEC 61000-4-2)	Communication Line and each Channel,				
EFT (IEC 61000-4-4)	±8 kV Air for Random Point ±4 kV for Power				
Surge ( IEC 61000-4-5)	+3 kV for Power				
Power	±3 KV 101 1 0WC1				
Input Voltage Range	+10 VDC ~ +30 VDC				
Power Consumption	0.84 W Max.				
Mechanical	0.0 1 17 11.0.1.				
Flammability	Fire Retardant Materials (UL 94V-0 Level)				
Dimensions (L × W × H)	87 mm × 33 mm × 110 mm				
Installation	DIN-Rail				
Environment					
Operating Temperature	-25 ~ +75°C				
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 Output	
Output Channels	14 (Sink)
Output Types	Isolated Open Collector
Max. Load Current	700 mA/channel
Load Voltage	+5 VDC ~ +50 VDC
External Power Reversed Protection and Short Circuit Protection	Yes
Current Limited Protection	1.1 A
Power-on Value	Yes
Safe Value	Yes

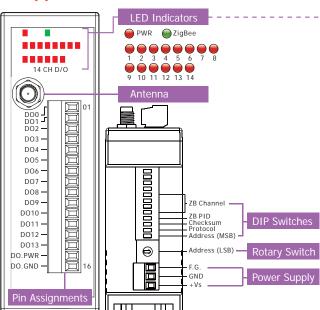


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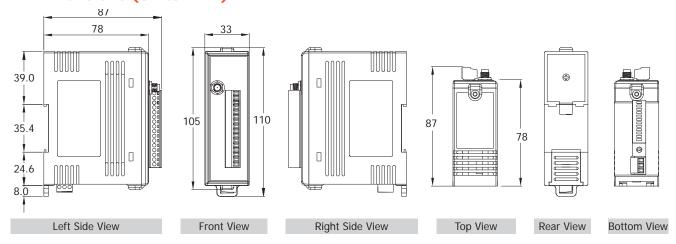
### **■** Wiring \_

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 DOX DO.GND
	Relay ON	Relay OFF
Resistance Load	DO.PWR DOX DO.GND	DO.PWR DOX DO.GND

## Appearance \_\_\_\_\_



# **■ Dimensions (Units: mm)**.



## Ordering Information -

ZT-2043 CR Wireless 14-channel Isolated Digital Output Module (ZigBee Router) (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, ZT-2570, and ZT-USBC 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)