



ZT-2043

Wireless 14-channel Isolated Digital Output Module

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 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 DIP switches.

System Specifications

Communication Interfa	ice	
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)	
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		
ESD (IEC 61000-4-2)	\pm 4 kV Contact for Power Line,Communication Line and each Channel, \pm 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 VDC ~ +30 VDC	
Power Consumption	1.32 W Max.	
Mechanical		
Dimensions (L x W x H)	87 mm x 33 mm x 110 mm	
Installation	DIN-Rail	
Environment		
OperatingTemperature	-25 ~ +75°C	
Storage Temperature	-30 ~ +80°C	
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 (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

RoHS

DIN-Rail Mounting

CE FC

Applications

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

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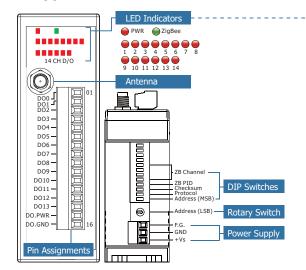
I/O Specifications

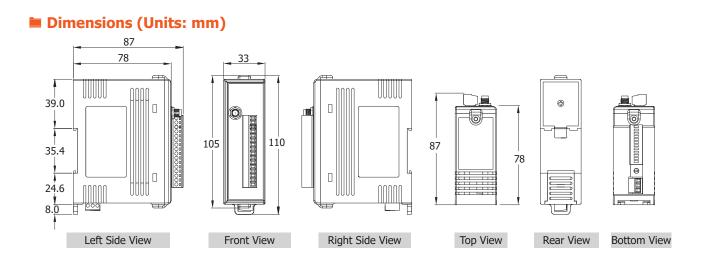
Digital Output	
Output Channels	14 (Sink)
Output Types	Isolated Open Collector
Max. Load Current	700 mA/channel
Load Voltage	+5 VDC ~ +50 VDC
External Power Reversed Protection and Short Circuit Protection	Yes
Current Limited Protection	1.1 A
Power-on Value	Yes
Safe Value	Yes

🖿 Wiring

Digital Output	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
	Relay ON	Relay OFF
Drive Relay		
	Relay ON	Relay OFF
Resistance Load	→ ↓ + ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	DO.PWR DOx DO.SND

Appearance





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)