

ZT-2043

Wireless 14-channel Isolated Digital Output Module

	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

Introduction _

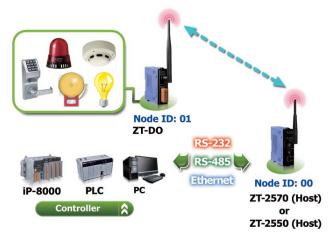
The ZT-2043 offers 14 sink type digital output channels with short circuit protection. All channels feature photo-couple isolation. The ZT-2043 includes 14 LED indicators to display the DO channel status. 4 kV ESD protection and 3750 VDc intra-module isolation are the standard. Users can easily configure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

System Specifications _

Communication 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				
	+10 VDC ~ +30 VDC			
Input Voltage Range Power Consumption	0.84 W Max.			
Mechanical	0.04 W Max.			
Flammability	Fire Retardant Materials (UL 94V-0 Level)			
Dimensions (L × W × H)	$87 \text{ mm} \times 33 \text{ mm} \times 110 \text{ mm}$			
	DIN-Rail			
Environment				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-30 ~ +80°C			
Relative Humidity	10 ~ 90% RH, Non-condensing			
Relative Humany	To 7070 RH, Non condensing			

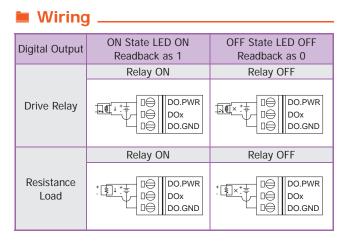
Applications _

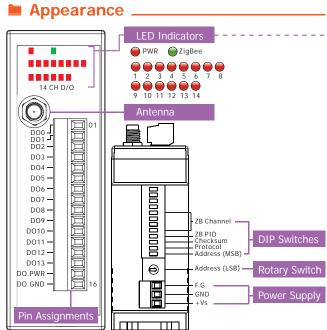
Building Automation, Factory Automation, Machine Automation, Remote Maintenance, Remote Diagnosis, Testing Equipment.



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	Yes		
Circuit Protection			
Current Limited Protection	1.1 A		
Power-on Value	Yes		
Safe Value	Yes		





Dimensions (Units: mm). 87 78 33 39.0 Ð Ô 6 ocococococococococococo 110 105 87 35.4 78 ⊜ 0000 24.6 8.0 Left Side View **Right Side View** Front View Top View Rear View Bottom View

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)