

ZT-2043 Wireless 14-channel Isolated Digital Output Module

Applications.

Surge and ESD Protection

FC

DIN-Rail Mounting

CE

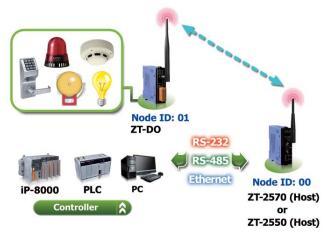
Configurable Power-on Value and Safe Value Settings

RoHS

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

X

ICP Electronics Australia Pty Ltd TEL: 02 9457 6011 sales@icp-australia.com.au



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	

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.

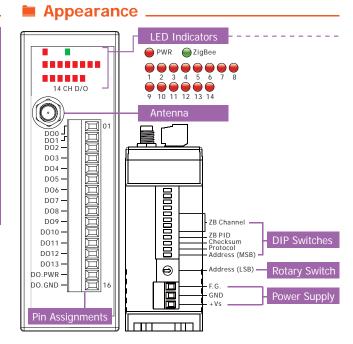
System Specifications _

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



🖿 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		



Dimensions (Units: mm) 87 78 33 UUUUU 39.0 Ð Ô 6 110 105 87 35.4 78 ⊜ 24.6 8.0 Е F Left Side View Front View **Right Side 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)