

ZT-2570/ZT-2571

Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4 G (IEEE802.15.4/ ZigBee Specifications)
- Fully Compliant with ZigBee Pro (ZigBee 2007)
- Adjustable RF Transmission Output Power
- Supports AES-128 Encryption for the Wireless Communication
- RS-232/RS-485/Ethernet Interface Supported
- GUI Configuration Software (Windows Version)
- Source Identification for the non-address Device Data Transmission
- Supports Modbus RTU/TCP Gateway (Broadcast/Unicast)
- Supports Broadcast Transmission for the Redundancy Transmission Path
- Supports Unicast Transmission to Reduce Network Loading
- Supports Topology Utility for Network Monitoring and Improvement
- DIN-Rail Mountable

Introduction

The ZT-2570 and ZT-2571 series modules are small-sized wireless ZigBee converters based on the IEEE802.15.4 standard that allow RS-232, RS-485 and Ethernet interface to be converted to a personal area ZigBee network. The typical transmission frequency range of between 2.405 GHz and 2.48 GHz, separated into 5 MHz sectors, providing 16 channels and 16384 PAN IDs.

ZT-2000 series is not only a long distance wireless converter but also can act a ZigBee router to extend the transmission range and improve the quality of wireless signal. ZT-2000 series products are specification for a suite of high level communication protocols using small, low-power digital radios module, which are fitted the ZigBee 2007 (ZigBee Pro) of ZigBee Alliance. In the ZigBee network, it is only allowed one ZigBee Host and called " ZigBee Coordinator", ZT-2570 series products, are used to initialize and manager the routing. In addition, One ZigBee network are able to manager 255 ZigBee router and responsible for receiving or bypassing data from parent or child node.

A Windows compatible GUI configuration utility is available. The utility allows users to set different configurations based on the type of application, together with several of required ZigBee variables such as Pan ID. The friendly user interface is also helping user be familiar with ZT-2000 series.

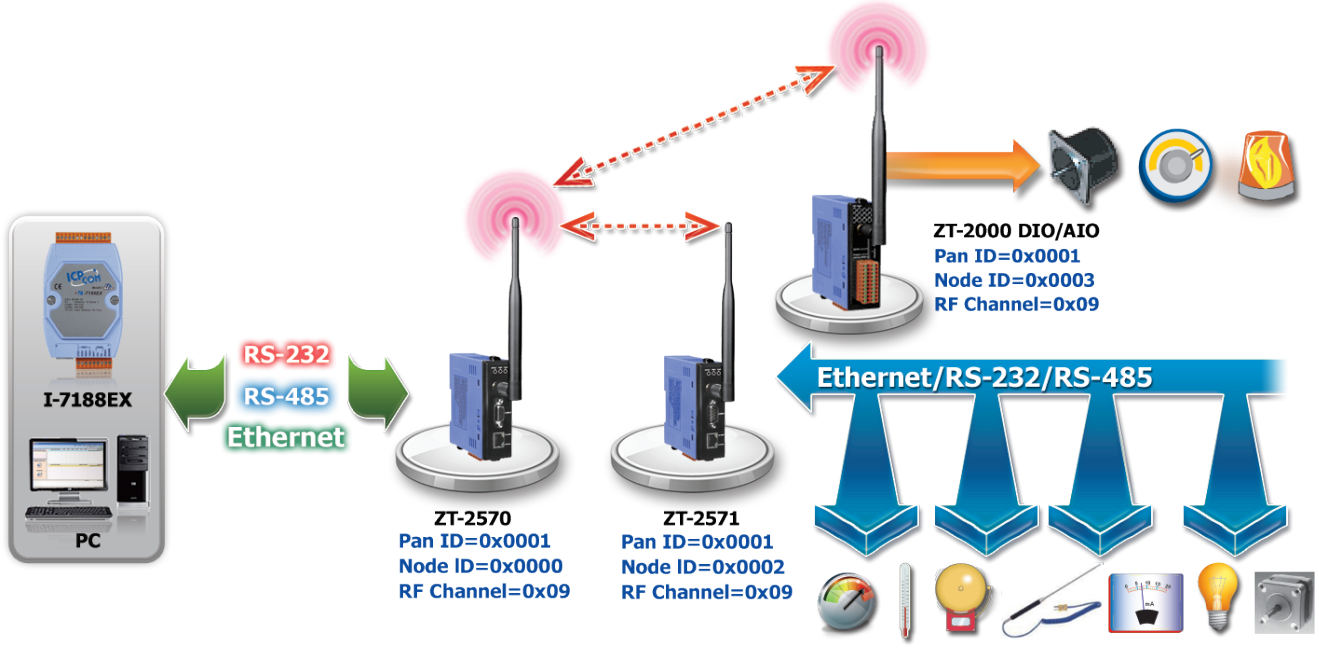
Specifications

Models	ZT-2570 (ZigBee Coordinator)	ZT-2571 (ZigBee Router)
CPU Module		
CPU	80186, 80 MHz or compatible	
LED Indicators		
Status	1 x Power 1 x Net 1 x RxD	
RF		
Channels	16	
Transmission Power	Up to 10 dBm EIRP	
ZigBee		
Antenna	5 dBi Omni-Directional antenna	
Max. Slaves	255	
Transmission Distance (LoS)	300 meters	
COM Ports		
Ports	1 x RS-232 (TxD, RxD and GND) 1 x RS-232 (DB9 Male) 1 x RS-485 (DATA+, DATA-; internal ASIC self-tuner)	
Baud Rate	1200 ~ 115200 bps	
Parity	Even, Odd, None	
Data Bit	7, 8	
Stop Bit	1, 2	
Power		
Input Range	+10 VDC ~ +30 VDC	
Consumption	Max. 2.5 W	

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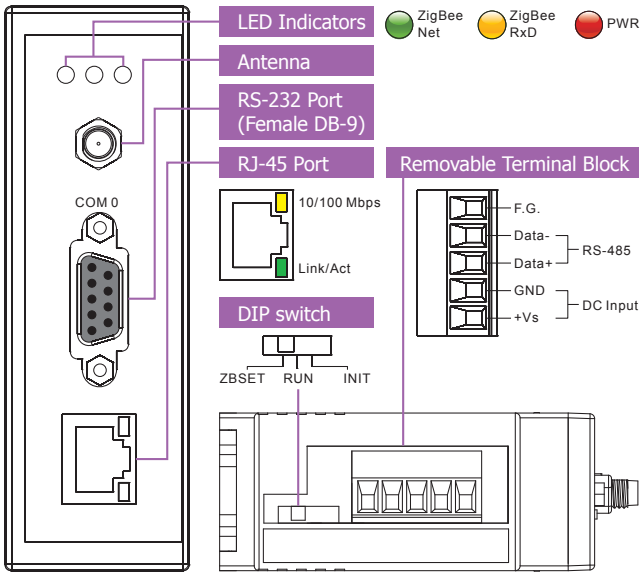
Models	ZT-2570 (ZigBee Coordinator)	ZT-2571 (ZigBee Router)
Mechanical		
Casing	Plastic	
Dimensions (mm)	33 x 87 x 110 (W x L x H)	
Environment		
Operating Temperature	-25 ~ +75°C	
Storage Temperature	-40 ~ +80°C	
Humidity	5 ~ 95% RH, Non-condensing	

Applications

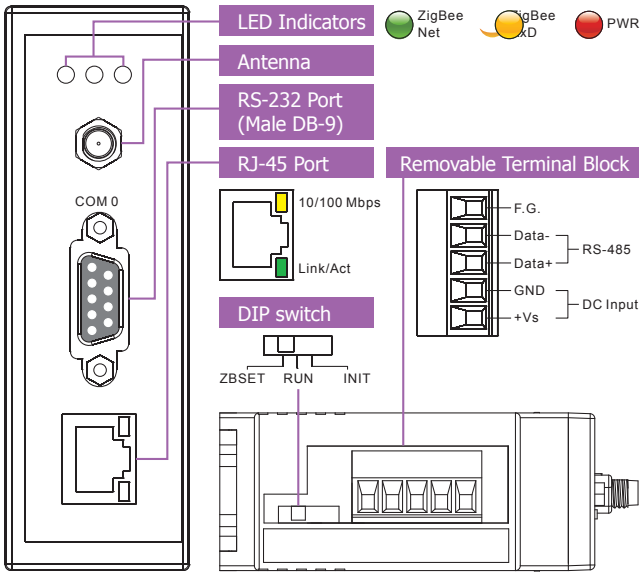


Appearance

ZT-2570

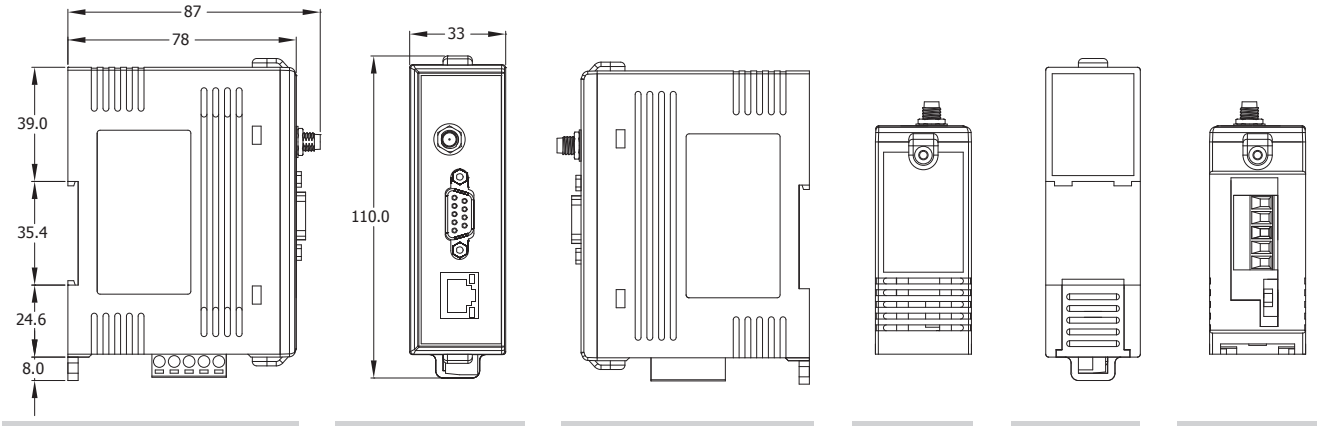


ZT-2571



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Dimensions (Units: mm)



Left Side View | Front View | Right Side View | Top View | Rear View | Bottom View

Ordering Information

ZT-2570 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host, ZigBee Coordinator) (RoHS)
ZT-2571 CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Slave, ZigBee Router) (RoHS)

Accessories

ZT-2550 CR	RS-485/RS-232 to ZigBee Converter (Host, ZigBee Coordinator) (RoHS)
ZT-2551 CR	RS-485/RS-232 to ZigBee Converter (Slave, ZigBee Router) (RoHS)
ZT-2510 CR	ZigBee Repeater (Slave, ZigBee Router) (RoHS)
ZT-2000 DIO series	Wireless digital input and digital output ZigBee I/O device
ZT-2000 AIO series	Wireless differential analog input and analog output ZigBee I/O device
Power Supply	12 V/24 V Power Supply
External Antenna	2.4 GHz External Antenna, RP SMA Male (Plug)
Extension Cable	3S00×-1, RG58A/U x Meter Long RP-SMA male to RP-SMA Female

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