

ZT-2510

Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4 G (IEEE802.15.4/ZigBee Specifications)
- Fully Compliant with ZigBee ZigBee Pro (ZigBee 2007)
- Adjustable RF Transmission Output Power
- GUI Configuration Software (Windows Version)
- Supports AES-128 Encryption for the Wireless Communication
- DIN-Rail Mountable

Introduction

The ZT-2510 module is small-sized wireless ZigBee repeater based on the IEEE802.15.4 standard. It supports network routing and signal relay transmission function in 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 a long distance wireless repeater and you are able to use it 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-2550/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. In ICP DAS products, the ZT-2551, ZT-2571, ZT-2000 I/O and ZT2510 are the ZigBee routers.

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.

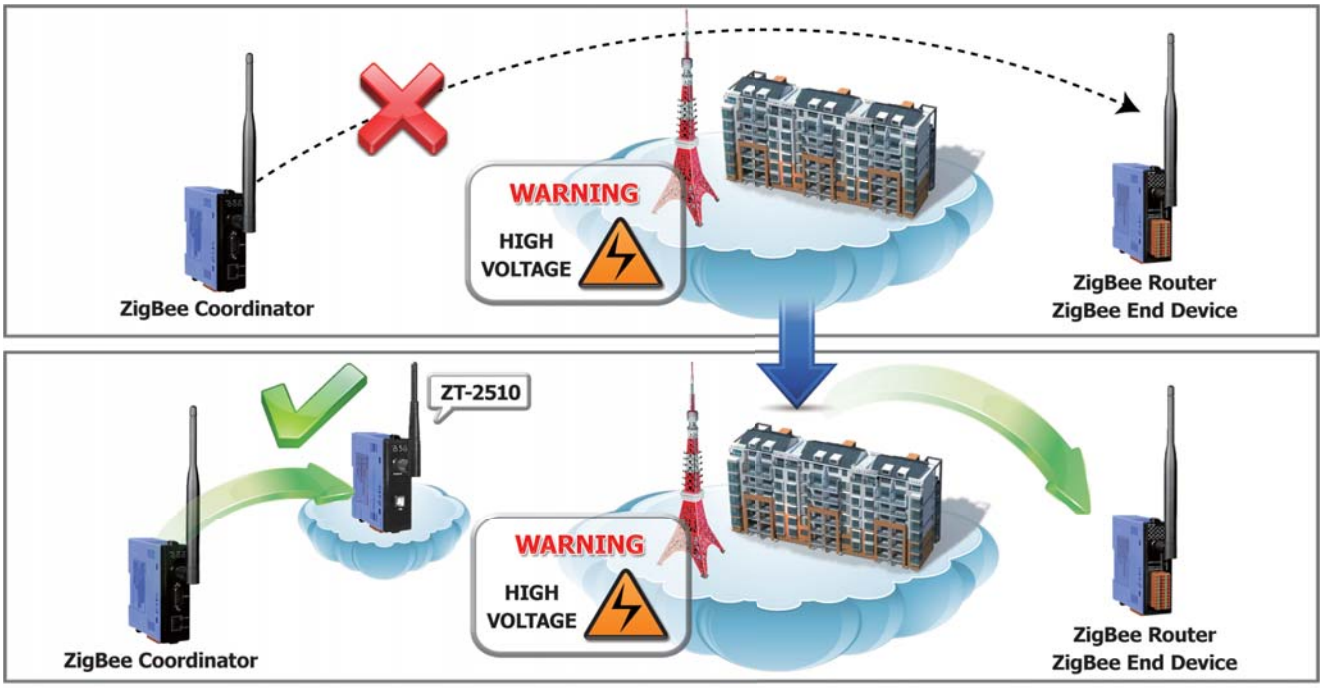
Specifications

Models	ZT-2510 (ZigBee Router)
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
USB	
Driver	Windows XP, 7, 8, 8.1, 10, 11, and Linux
Power	
Consumption	1 W
Mechanical	
Casing	Plastic
Dimensions (mm)	33 x 87 x 110 (W x L x H)
Installation	DIN-Rail
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +80°C
Humidity	5 ~ 90% RH, Non-condensing

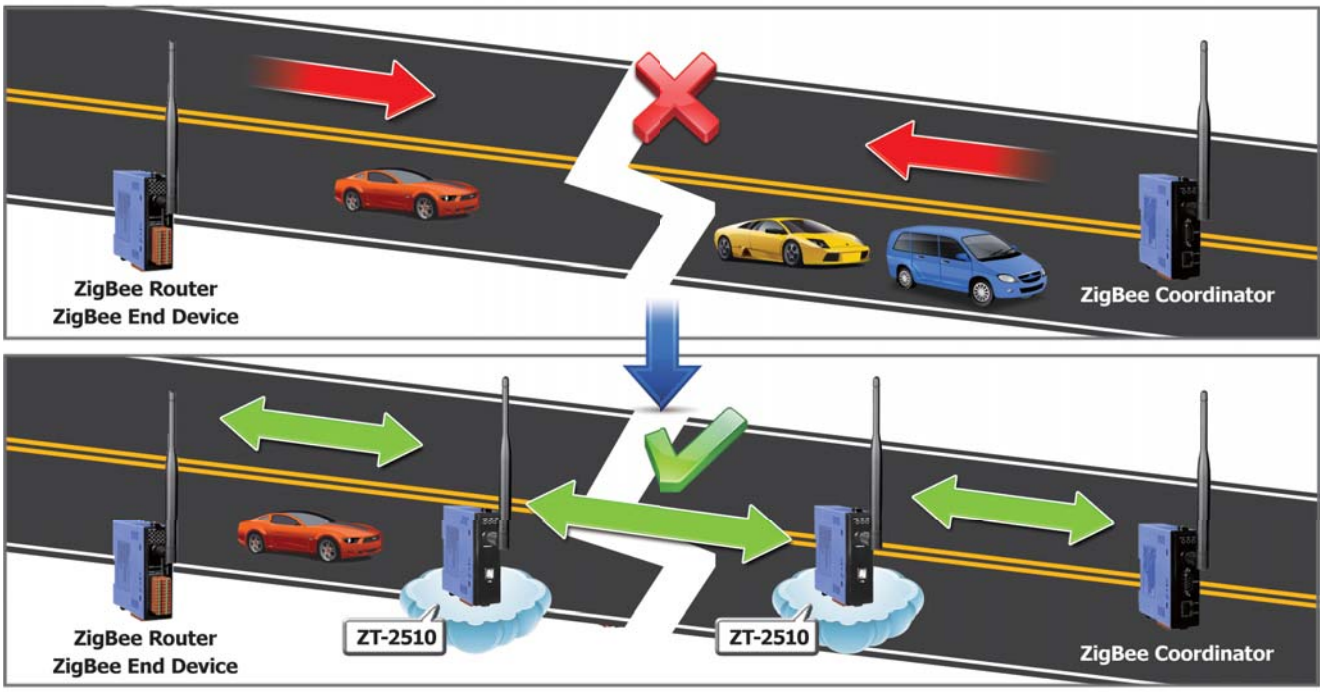
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Applications

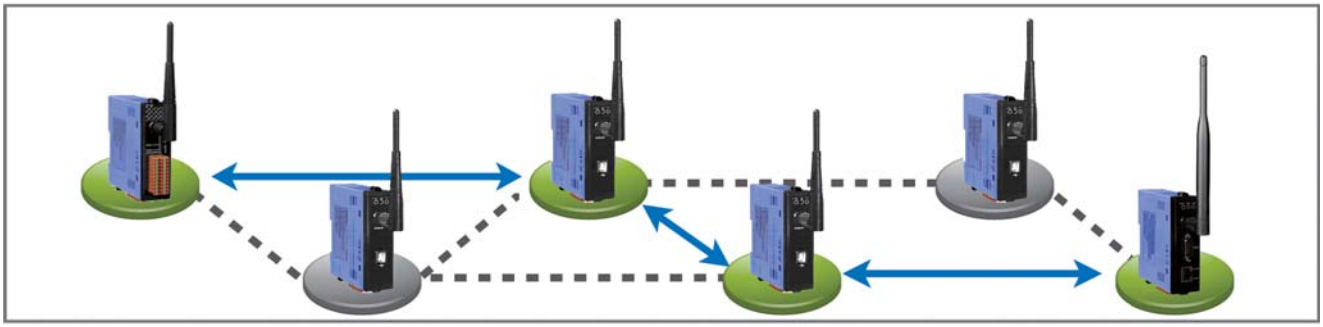
Data Forwarding



Communication Range Extension

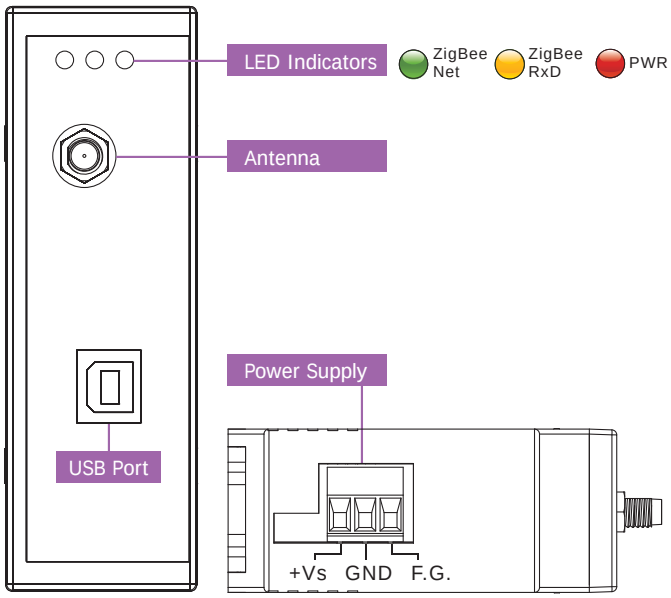


Redundant Routing

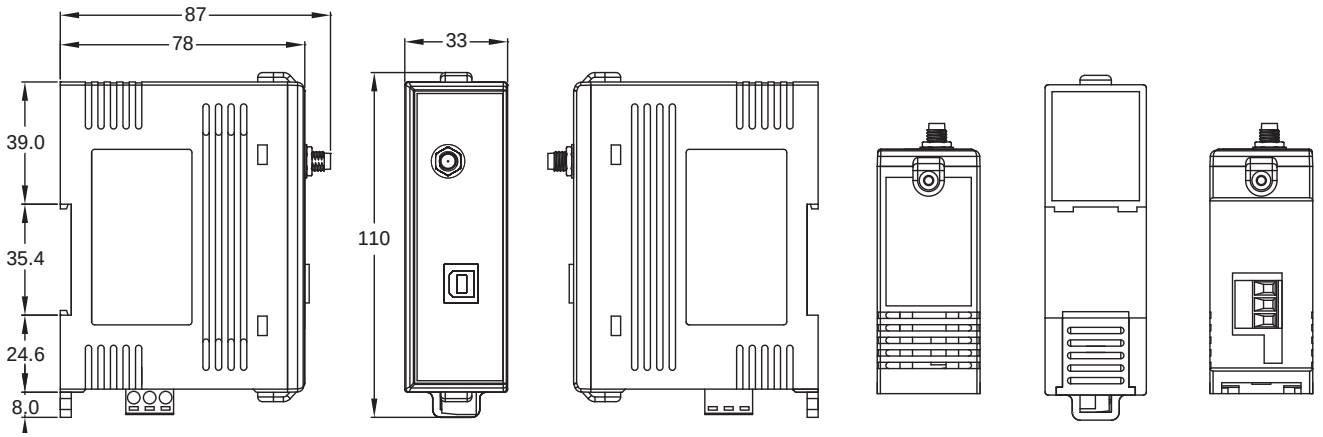


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Appearance



Dimensions (Units: mm)



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

Ordering Information

ZT-2510 CR	ZigBee Repeater (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-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)
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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