



Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with 2.4 G IEEE802.15.4/ZigBee Specifications
- Wireless transmission range up to 100 m (ZB-2570-T/ZB-2571-T)
- Wireless Transmission Range up to 700 m (ZB-2570-PA/ZB-2571-PA)
- Topologies Supported: Star, Cluster Tree, and Mesh
- GUI Configuration Software (Windows Version)
- DIN-Rail Mountable



Introduction

The ZB-2570 series is a host ZigBee converter, and the ZB-2571 series is a slave ZigBee converter. Each features an Ethernet/RS-485/RS-232 interface. Devices that have an Ethernet/RS-485/RS-232 interface are also able to be connected using the ZB-2570 and ZB-2571 series. By distributing host and slave ZigBee converters in the field, users can easily build a wireless network for monitoring and control.

ZigBee is based on the IEEE 802.15.4 standard for wireless personal area networks (WPANs). It is aiming at applications that require secure networking as well as high flexibility for network expansion anytime. It is also widely used in the industrial control field, hospitals, labs and building automation.

Specifications

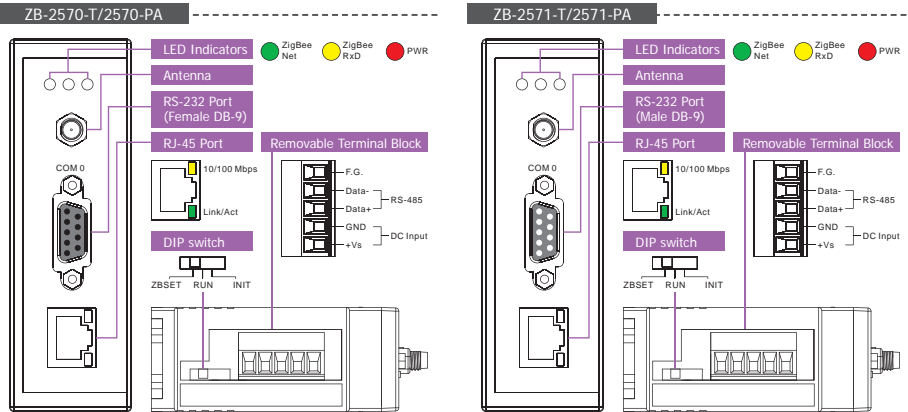
Models	ZB-2570-T	ZB-2570-PA	ZB-2571-T	ZB-2571-PA
ZigBee Module				
RF Channels	16			
Receiving Sensitivity	-102 dBm			
Network Topology	Star, Mesh and Cluster tree			
Antenna (Omni-Directional)	2.4 GHz – 3 dBi	2.4 GHz – 5 dBi	2.4 GHz – 3 dBi	2.4 GHz – 5 dBi
Transmission Range	100 m	700 m	100 m	700 m
General				
Module Type	Host		Slave	
Communication Interface				
COM 0	D-Sub 9 Female Non-isolated ; RS-232 (TxD, RxD, GND); RS-485 (DATA+, DATA-, internal self-tuner ASIC)		D-Sub 9 Male Non-isolated; RS-232 (TxD, RxD, GND); RS-485 (DATA+, DATA-, internal self-tuner ASIC)	
Ethernet	10/100 Base-TX (Auto-negotiating, auto MDI/MDI-X, LED indicators)			
LED Indicators				
ZigBee Net State	Green			
ZigBee Rx/D	Yellow			
Power	Red			
Power				
Protection	Power reverse polarity protection			
EMS Protection	ESD, Surge, EFT			
Required Supply Voltage	+10 V _{DC} – +30 V _{DC}			
Power Consumption	2.5 W	4 W (max.)	2.5 W	4 W (max.)
Connection	5-Pin 5.08 mm Removable Terminal Block			
Mechanical				
Casing	Plastic			
Flammability	UL 94V-0 fire-retardant materials			
Dimensions (W x L x H)	33 mm x 107 mm x 78mm			
Installation	DIN-Rail			

Models	ZB-2570-T	ZB-2570-PA	ZB-2571-T	ZB-2571-PA
Environment				
Operating Temperature	-25 °C ~ +75 °C			
Storage Temperature	-40 °C ~ +80 °C			
Relative Humidity	5% ~ 90% RH, Non-condensing			

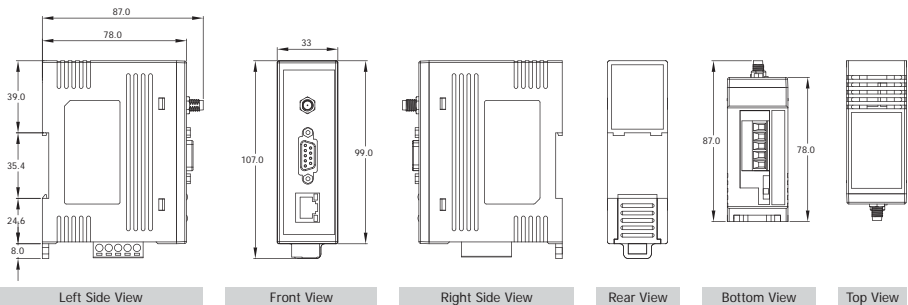
Applications



Appearance



Dimensions (Units: mm)



Ordering Information

ZB-2570-T CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host) (RoHS)
ZB-2570-T/S CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host) (RoHS) + GPSU06U-6 (Power Supply)
ZB-2570-PA CR	Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS)
ZB-2570-PA/S CR	Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS) + GPSU06U-6 (Power Supply)
ZB-2571-T CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Slave) (RoHS)
ZB-2571-T/S CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Slave) (RoHS) + GPSU06U-6 (Power Supply)
ZB-2571-PA CR	Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Slave) (RoHS)
ZB-2571-PA/S CR	Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Slave) (RoHS) + GPSU06U-6 (Power Supply)

Accessories

ZB-2550-T CR	RS-485/RS-232 to ZigBee Converter (Host) (RoHS)
ZB-2551-T CR	RS-485/RS-232 to ZigBee Converter (Slave) (RoHS)
ZB-2550-PA CR	RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS)
ZB-2551-PA CR	RS-485/RS-232 to High Power Amplifier ZigBee Converter (Slave) (RoHS)
ZB-2510-T CR	ZigBee Repeater (RoHS)
ZB-2510-PA CR	High Power Amplifier ZigBee Repeater (RoHS)