



## ZB-2500

ZigBee Sniffer

### Features

- ISM 2.4 GHz Operating Frequency
- Full Compliance with 2.4 G IEEE802.15.4/ZigBee Specifications
- USB Interface for configuration
- GUI Software (Windows Version)
- DIN-Rail Mountable



### Introduction

The ZB-2500 is a ZigBee packet sniffer that is designed for signal detection and analysis for every ZigBee modules in ICPDAS. When install the ZigBee modules on-site, the ZB-2500 would be helpful to find the best location of signal and we can layout the best ZigBee network topology.

There is another purpose for using ZB-2500. When the ZigBee module go to failure or transmission efficiency is bad, we can use ZB-2500 to detect a specific ZigBee node signal to find out the failure reasons.

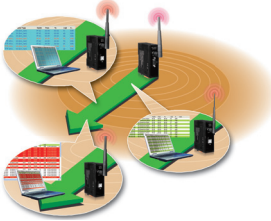
The ZB-2500 also works in an adjustable 16 RF Channels and USB interface supported. We can easily operate it via a Windows base utility. As long as we have ZB-2500, we can always propose a solution when first time installing ZigBee modules on-site got failure.

### Specifications

Models	ZB-2500
<b>Wireless</b>	
RF Channels	16
Receiving Sensitivity	-102 dBm
Antenna (2.4 GHz)	3 dBi Omni-Directional antenna
<b>Setting Interface</b>	
USB	Type B
Included Cables	CA-USB18 (1.8 M Cable) x 1; USB Type A connector (Type A to Type B cable provided)
Compatibility	USB 1.1 and 2.0 standard
Supported Drivers	Windows 98/ME/2000/XP/Vista/Linux 2.6.19
<b>LED Indicators</b>	
ZigBee Net State	Yellow
Power	Red
<b>Power</b>	
Protection	Power reverse polarity protection
EMS Protection	ESD, Surge, EFT
Required Supply Voltage	+10 Vdc ~ +30 Vdc
Power Consumption	1.5 W
Connector	3-pin 5.08 mm Removable Terminal Block.
<b>Mechanical</b>	
Casing	Plastic
Flammability	UL 94V-0 materials
Dimensions (W x L x H)	33 mm x 78 mm x 107 mm
Installation	DIN-Rail
<b>Environment</b>	
Operating Temperature	-25 °C ~ +75 °C
Storage Temperature	-40 °C ~ +80 °C
Relative Humidity	5% ~ 90% RH, Non-condensing

## Applications

### Measure Signal Strength



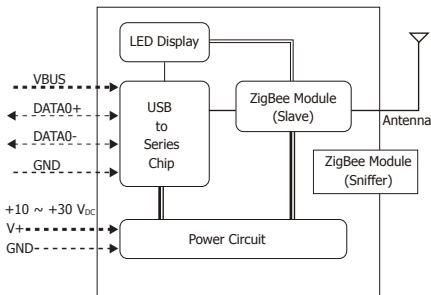
### Troubleshooting



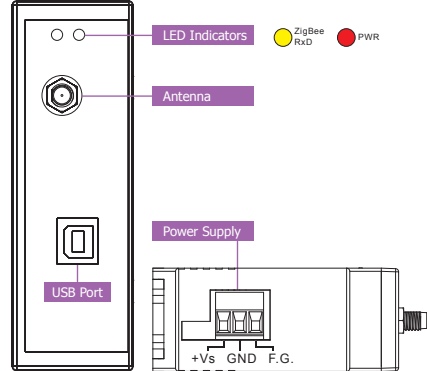
### Packet Analysis



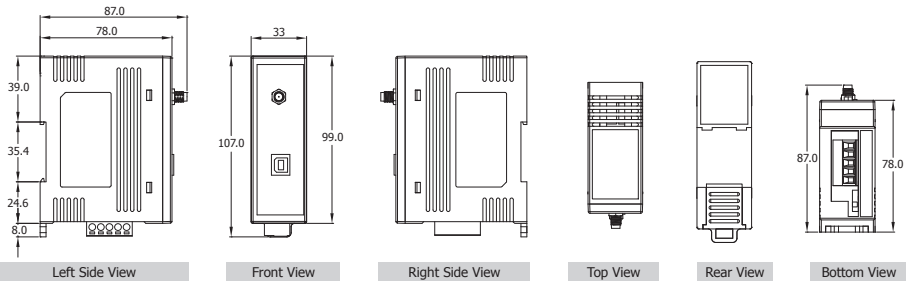
## Internal I/O Structure



## Appearance



## Dimensions (Units: mm)



## Ordering Information

ZB-2500 CR	ZigBee Sniffer (RoHS)
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## 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-2570-T CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Host) (RoHS)
ZB-2571-T CR	Ethernet/RS-485/RS-232 to ZigBee Converter (Slave) (RoHS)
ZB-2570-PA CR	Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS)
ZB-2571-PA CR	Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Slave) (RoHS)