

ZT-USBC/ZT-USBR

USB to ZigBee Converter



Model: ZT-USBC



Model: ZT-USBR

Features

- ISM 2.4 GHz Operating Frequency
- Fully Compliant with IEEE802.15.4/ZigBee Specifications (ZigBee Pro/ZigBee 2007)
- No External Antenna required.
- Wireless Transmission Range up to 60 meters (Line of Sight)
- GUI Configuration Software (Windows Version)
- Fully Compliant with the USB 1.1/2.0 (High Speed)
- No External Power Supply required.
- Baud Rate up to 115200 bps.
- Operating Temperatures, -25 °C ~ +75 °C
- Driver Supports Windows 98/ME/2000/XP/Vista/7/8

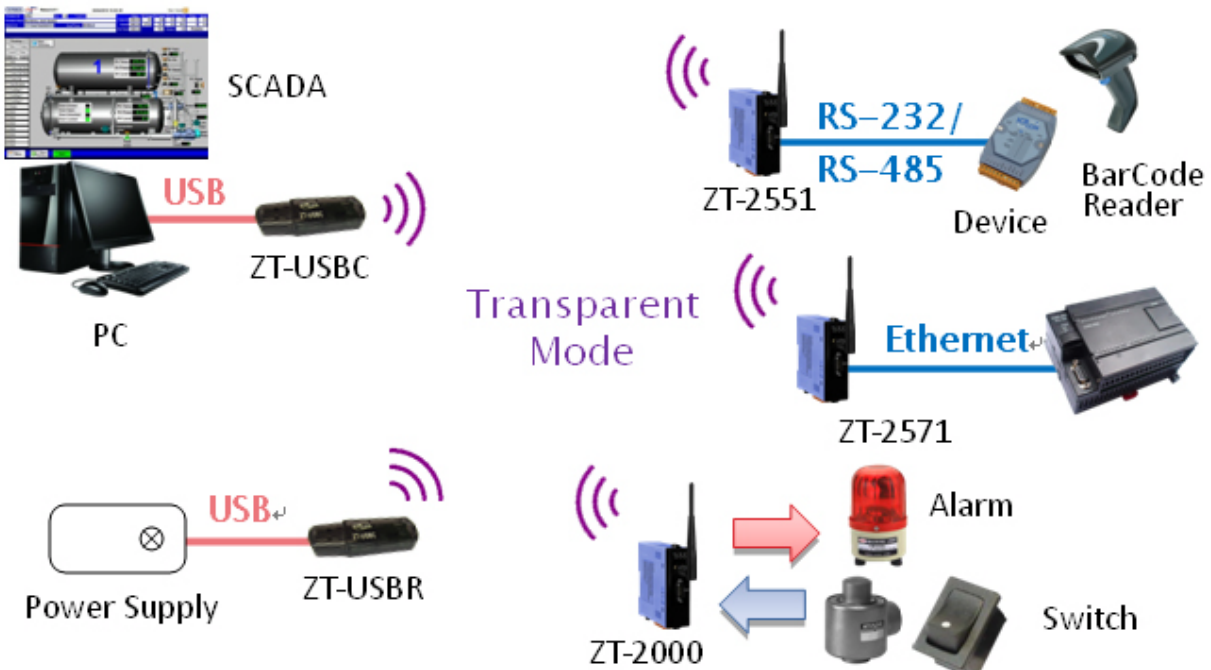
Introduction

The ZT-USB series modules are small-sized wireless ZigBee converters based on the IEEE802.15.4 standard that allow USB interface to be converted to a personal area ZigBee network. The typical transmission of ICP DAS ZT-USB series ZigBee products is 60 meters (LOS, line of sight), with a 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 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-USB 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-USBC is 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-USB and ZT-2000 series.

Applications



Specifications

| Models | | ZT-USBC (Coordinator) | ZT-USBR (Router) |
|--------------------------------|---------------|--------------------------------------|------------------|
| Hardware | | | |
| MCU Module | | 8-bit microprocessor | |
| Temporary Buffer Size | | 237 Bytes | |
| LED | Red | ZigBee Net | |
| Communication Interface | | | |
| USB | Connector | Type-A Plug | |
| | Compatibility | USB 1.1 and 2.0 standard | |
| | Driver | Windows 2000/XP/Vista/7/8 | |
| Power | | | |
| Required Supply Voltage | | USB Socket Powered | |
| Power Consumption | | 0.3 W(Max.) | |
| Mechanical | | | |
| Casing | | Plastic | |
| Dimensions | | 19.8 mm x 58.4 mm x 9 mm (W x L x H) | |
| Environment | | | |
| Operating Temperature | | -25°C ~ +75°C | |
| Storage Temperature | | -40°C ~ +80°C | |
| Relative Humidity | | 5 ~ 95% RH (non-condensing) | |
| Wireless | | | |
| RF Channels | | 16 | |
| RF Transmit Power | | 3 dBm | |
| Antenna (2.4GHz) | | PCB Antenna | |
| Transmit Range (Line of Sight) | | 60 m (Typical) | |
| Max. Slaves Supported | | 255 | |

Note: The ZT-USBC/ZT-USBR doesn't have CE and FCC certification.

Ordering Information

| | |
|------------|---|
| ZT-USBC CR | USB to ZigBee Converter (Host, ZigBee Coordinator) (RoHS) |
| ZT-USBR CR | USB to ZigBee Converter (Slave, ZigBee Router) (RoHS) |