

RSZBEE

IoT Gateway

www.3wire.my



INTRODUCTION

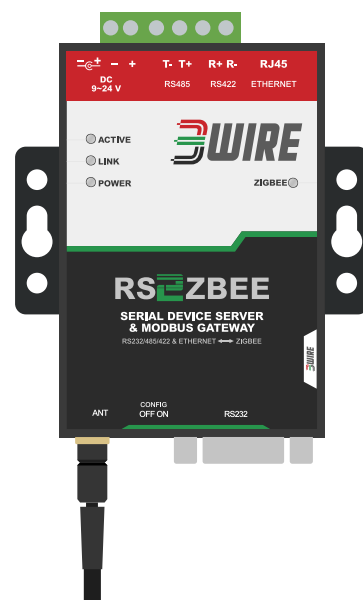
3Wire RSZBEE is an industrial grade Zigbee Serial Device Server for connecting your Serial and Ethernet devices, such as PLCs, meters, and sensors, over a Zigbee wireless Network.

Your communications software will be able to access the serial devices from anywhere on a LAN/WLAN thru the Zigbee network. Moreover, the **ZIGBEE** device servers require fewer cables and are ideal for applications that involve difficult wiring situations.

RSZBEE can operate as Modbus TCP Master, Modbus TCP Slave, Paired Mode, Bridge Mode with the data connection thru direct IP or Virtual COM.

FEATURES & BENEFITS

- Links Serial and Ethernet devices to an Zigbee network; simultaneous access over Ethernet & Serial
- Optical isolation of 1500V on RS485 / RS422 data lines; 2kV surge protection on Ethernet Port
- Supports baud rate of 1200bps ~ 115200bps, 5 ~ 9 bits and parity can be "None", "Odd", "Even", "Mark" & "Space"
- Serial port interface for RS232 / 485 / 422; terminal block for RS485 & RS422 and DB9 for RS232
- Supports 10/100 Mbps Ethernet
- Operates in Multi-Serial, STAR, MESH, & TREE Mode
- Power / Link / Active LED indicator
- Secure data access with 16 encrypted channels
- Upto 256 slaves connected on RS485 / 422 bus
- Each Zigbee Master can connect upto 32 Zigbee Slave
- Multi-mode operation; TCP Server, TCP Client, UDP Mode, UDP Multicast
- Modbus TCP Gateway function (converts Modbus RTU to Modbus TCP)
- Supports 30 TCP clients at TCP Server and 7 destination IP as TCP Client
- Heartbeat & Keep Alive function ensures a reliable connection
- Virtual Port operation using 3Wire ComPort Emulator software
- Automatic discovery and configuration using provided 3Wire Device Management software or Web Browser configuration
- Wide voltage 9VDC ~24VDC with dual voltage input; Screw Terminal or DC-Jack
- Plug-in screw terminal wiring; accepts AWG12 ~AWG30 wires.



SPECIFICATIONS

GENERAL SPECS

Interface	RS485/422: Terminal; RS232: DB9
Power Supply	5.5mm Plug & 2 Way Plugable Terminal Block
Dimensions	94mm (L) x 65mm (W) x 25mm (H)

INTERFACE

Ethernet	10M / 100M, 2kV Surge Protection
Zigbee	IEEE 802.15.4
Serial	RS232/485/422x1: RXD, TXD, GND, CTS, RTS

SERIAL PARAMETERS

Baud Rate	1200 ~ 115200bps
Data Bits	5 bits ~ 9 bits
Parity	None, Odd, Even, Mark, Space
Flow	RTS / CTS, XON / XOFF, NONE

ZIGBEE

Zigbee Standard	IEEE 802.15.4
WLAN Mode	Multi-Serial, Star & Mesh
Transmission Distance	upto 2000m
Wireless Channel	16
Frequency Range	2.405 GHz ~2.480 GHz
Transmit Power	+25dBm (max)
Modulation System	DSSS
Anticollision Loop	CSMA-CA and GTS CSMA-CA

COMMUNICATION

Protocol	ETHERNET, IP, TCP, UDP, HTTP, ARP, ICMP, DHCP, DNS
Configuration	3Wire Device Management Software & WEB Browser
Net Communication	Direct TCP/IP, Virtual Serial Port
Mode	TCP Server, TCP Client, UDP, UDP Multicast

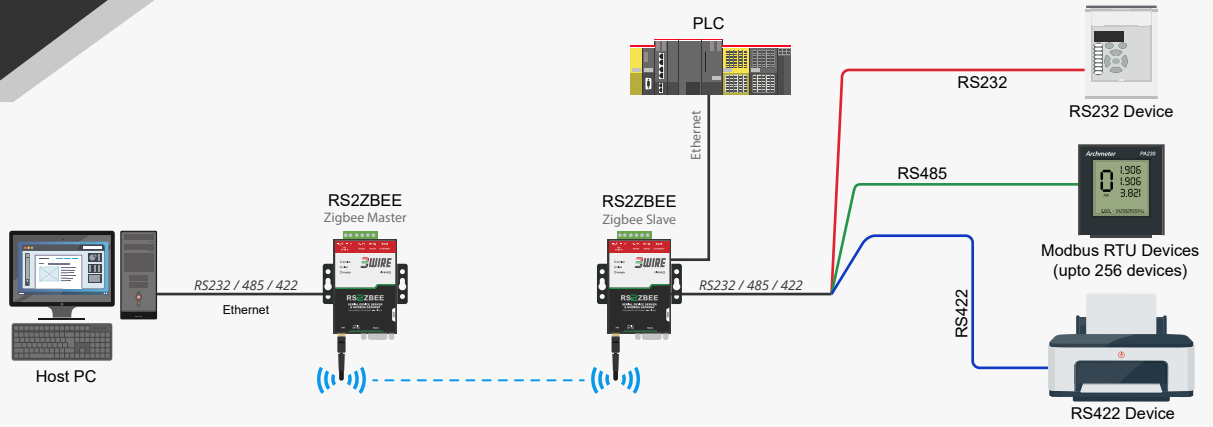
POWER REQUIREMENT

9 ~ 24V DC. 80mA@12V : 40mA@24V : 20mA@48V

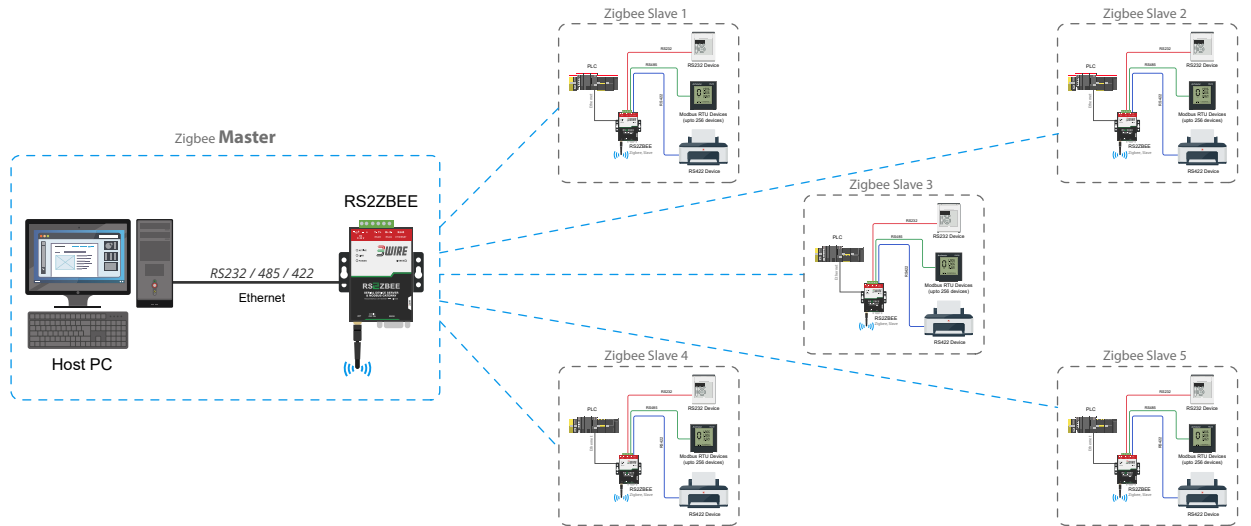
ENVIRONMENT

Operation Temperature	-40°C ~ 85°C
Storage Temperature	-45°C ~ 125°C
Humidity	5 ~ 95% RH

RS2ZBEE
@SERIAL MODE

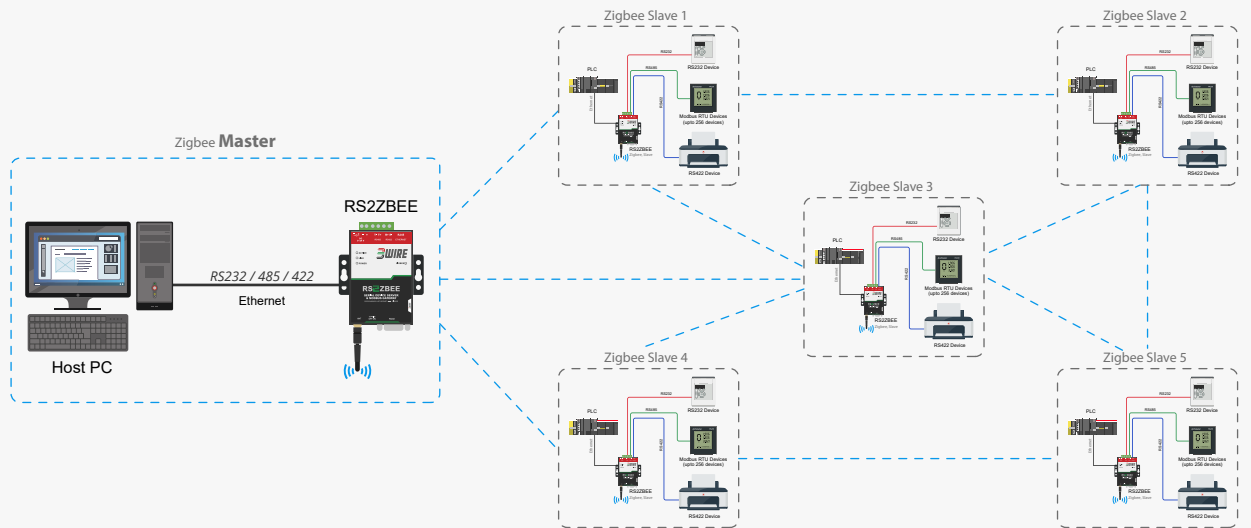


RS2ZBEE
@MULTI-SERIAL
(TREE) MODE



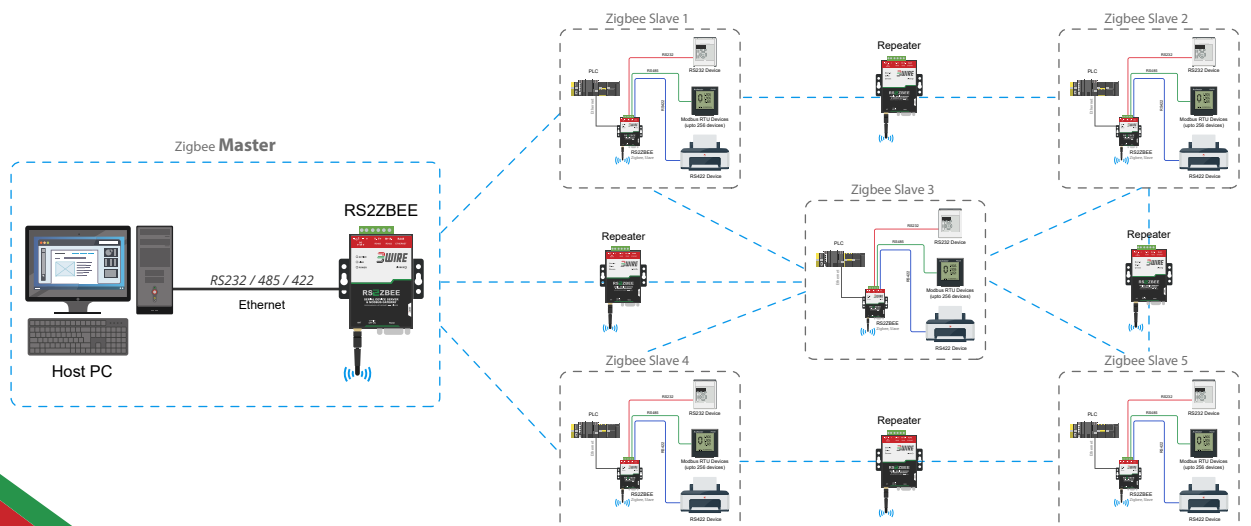
Max 32 Zigbee Slaves

RS2ZBEE
@MESH MODE



Max 32 Zigbee Slaves

RS2ZBEE
@MESH +
REPEATER



Max 32 Zigbee Slaves