WZB-02485R / WZB-02485C
ZigBee Wireless Repeater / Coordinator

ZigBee
Control your world
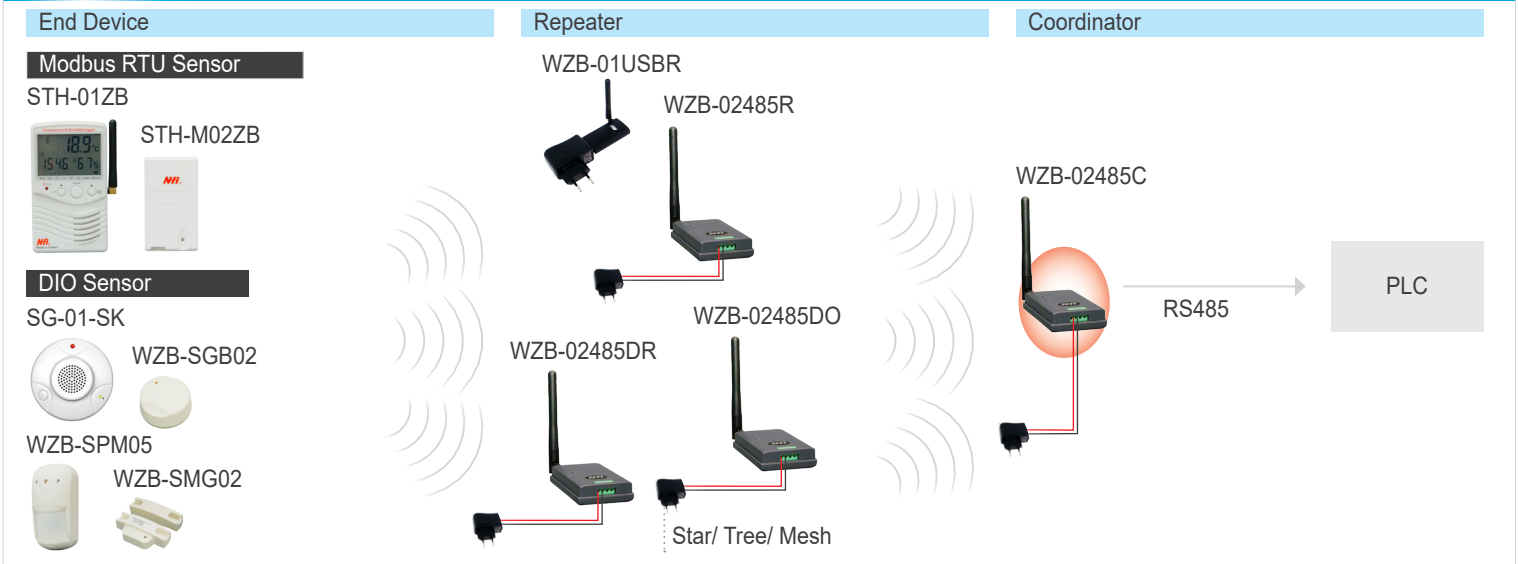HA Profile Compliant

CE FC

Features & Benefits

■ Designed specifically for connecting with Controller(PLC) via Modbus RTU protocol and RS485 interface.

■ DC 6~24V wide operating range and terminal block connector make this unit exactly applicable in electric panel in industrial control application.

■ Bendable external antenna with omnidirectional broadcast capability: The user can easily orient the antenna in almost any angle without compromising signal strength.

■ This unit can receive Modbus RTU and DIO signal that can cover very wide range of sensor selection for user.

■ ZigBee Home Automation Profile compliant means the device is compatible with other ZigBee HA certified receivers that adds the flexibility for user to choose from.

This terminal style ZigBee wireless repeater/coordinator is designed specifically for communication with PLC controllers. This unit collects all the ZigBee wireless data and communicates with the PLC controller via Standard Modbus RTU protocol and RS485 interface. This unit can also receive both Standard Modbus RTU data and DIO signal that cover a wide range of sensor selections. Thus far, this unit has been proven effective for paperless logger, temperature and humidity sensor, wireless security detector, and agriculture sensor applications.

Specifications

Transmitting Protocol	UART: Modbus RTU / ZigBee: HA profile	Transmit Interval	150 ms
Addressing	DIP Switch (Modbus)	Network Topology	Star/ Tree/ Mesh
Wireless Protocol	IEEE 802.15.4 ZigBee2007/PRO	Power Supply	DC6~24V
Transmission Range	Up to 300 meters / 984 feet	Operating Environment	-20 ~ +80°C/ -4 ~ +176ºF, 0~95% RH
Operating Frequency	2.4GHz ISM Band	Dimensions	62(L) x 42(W) x 15(H) mm
RF Output Power	18dBm	Weight	31g / 1.1oz
Receiver Sensitivity	-92dBm	Certifications	CE/ FCC
Power Consumption	0.3W		

Application Solutions

End Device

Modbus RTU Sensor
STH-01ZB
STH-M02ZB

DIO Sensor
SG-01-SK
WZB-SGB02
WZB-SPM05
WZB-SMG02

Repeater

WZB-01USBR
WZB-02485R
WZB-02485DO
WZB-02485DR
Star/ Tree/ Mesh

Coordinator

WZB-02485C
RS485
PLC

Ordering Code

Solution	Ordering Code	Description	Solution	Ordering Code	Description
Coordinator	WZB-02485C-HA	ZigBee Wireless RS485 Coordinator (HA Profile)	Coordinator	WZB-02485C-MB	ZigBee Wireless RS485 Coordinator (Modbus Profile)
Repeater	WZB-02485DO-HA	ZigBee Wireless RS485 Repeater for End Device (DO output) (HA Profile)	Repeater	WZB-02485DO-MB	ZigBee Wireless RS485 Repeater for End Device (DO output) (Modbus Profile)
Repeater	WZB-02485DR-HA	ZigBee Wireless RS485 Repeater for End Device (DI input) (HA Profile)	Repeater	WZB-02485DR-MB	ZigBee Wireless RS485 Repeater for End Device (DI input) (Modbus Profile)
Repeater	WZB-02485R-HA	ZigBee Wireless RS485 Repeater (HA Profile)	Repeater	WZB-02485R-MB	ZigBee Wireless RS485 Repeater (Modbus Profile)