

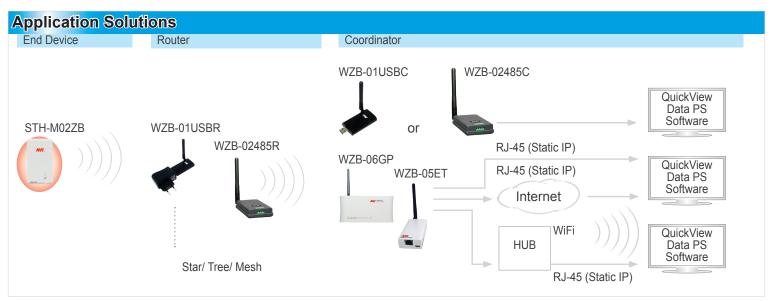
Features & Benefits

- Built-in High accuracy MEMS temperature and humidity sensor element making the unit not only for observation, but also applying in precision control.
- Slim outlook making the unit look elegant in placing in office, laboratory, clean room, commercial building With its built-in power amplifier, it has logger transmission distance than STH-03ZB, and it has the capability of routing making it a repeater for other sensor nodes which increase the reliability of whole network.
- Power supply options as 5V USB, DC 5V or power adaptor, with more options and more convenient in using the product.
- 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.
- Temperature and humidity calibration via OTA (Over-the-air) using QuickView software.

This high accuracy wireless temperature and humidity sensor is exclusive designed for the field which already has power sources and the installer who do not want to or not easy to connect the sensor via wire. The sensor has high accuracy MEMS sensor and industrial level wireless technology ZigBee, which can be applied in home, commercial, agriculture, laboratory and instrumentations. With its built-in power amplifier, it is smaller than STH-03ZB, but has bigger wireless coverage, moreover, its routing capability can increase the overall reliability of the whole system as a repeater. In real application, we have tested severely with Modbus RTU wired sensor, and it can achieve 99.999% communication rate by the set of 150 ms Time-out. It is a proven technology in integrating with your current wired sensor network. This unit gives you the solution for both reliability and flexibility.

Specifications			
Sensing Type	Temperature and humidity sensor	Power Consumption	150 mV
Sensing Range	Ambient	Transmit Interval	150 ms
Measurement Acc	Temperature +/-0.5 °C/ Humidity +/-5%	Network Topology	Star/ Tr
Transmitting Protocol	UART: Modbus RTU/ ZigBee: HA profile	Power Supply	DC 5V
Addressing	DIP Switch	Operating Environment	-20 ~ +
Wireless Protocol	IEEE 802.15.4 ZigBee2007/PRO	Dimensions	85 (L) r
Transmission Range	200 meters / 656 feet (free space)	Weight	201g /
Operating Frequency	2.4GHz ISM Band	Operating System	Windov
RF Output Power	0 dBm	Certifications	CE/ FC
Receiver sensitivity	-92 dBm		

Power Consumption	150 mW				
Transmit Interval	150 ms				
Network Topology	Star/ Tree/ Mesh				
Power Supply	DC 5V Micro USB Adapter.				
Operating Environment	-20 ~ +80°C/ -4 ~ +176°F, 0~95% RH				
Dimensions	85 (L) mm x 47(W) mm x 10 (H) mm				
Weight	201g / 7.1oz				
Operating System	Windows 95/ 98/ NT/ 2000/ XP/Win 7 /8				
Certifications	CE/ FCC				



Ordering Code & Accessories						
Solution	Ordering Code	Description	Solution	Ordering Code	Description	
End Device	STH-M02ZB	ZigBee Temp. and Humidity Sensor	Coordinator	WZB-01USBC	ZigBee Wireless Coordinator	
Router	WZB-02485R	ZigBee Wireless Router	Coordinator	WZB-02485C	ZigBee Wireless Coordinator	
Router	WZB-01USBR	ZigBee Wireless Router	Coordinator	WZB-06GP	ZigBee Multi-Gateway	
Coordinator	WZB-05ET	ZigBee Ethernet (Coordinator)	Coordinator	WZB-05ET	ZigBee Ethernet (Coordinator)	

