

# Z920K

::: RS485/RS232 to Wireless Mesh Converter :::



Outdoor P-to-P range 500m (at a visible direct line) ((●))

Network Capacity Max 100 nodes

Topology Mesh (Max 16 hops)

Radio frequency band 920MHz

Max Receiver Sensitivity -103 dBm

Console APP (BLE/NFC) / Windows Utility (micro USB)



## GENERAL DESCRIPTION

ZOTECH Z920K series are able to easily wireless those messy RS485 / RS232C wirings for Industrial IoT, smart building or other IoT applications. Z920K-P/Z920K-C support Modbus/RTU or ASCII, and feature a low power consumption, long-range and robust wireless mesh links. Z920K 920Mhz radio frequency has a strong capability to desensitize with interferences to make it as a perfect solution for a wireless data transferring. The major advantage of Z920K is the original control/data collect systems and sensing equipments can be kept reused to save cost and time for a mesh network establish. As well, Z920K configuration can be done through BLE/NFC console APP or a Windows utility. The APP equips the functions of the quick installation and the fast NFC data read/write. It will be much helpful for users to build the mesh network at sites. Z920K can be easily and widely used for the different IOT applications.

### Common Features

- Compatible with IEEE 802.15.4g
- Modulation GFSK
- Transmit Bandwidth 400KHz
- Max Receiver Sensitivity -103 dBm
- Maximum data rate 100 kbps
- Transmit output power 0.16mW/1mW/20mW
- Encryption 128bits AES (MAC)
- LED indicators: PWR/LINK/NETWORK/RSSI/TX/RX
- External Antenna 920-928Mhz/+3dBi
- Operation: Normal mode/Measurement mode
- Operating Temperature -20°C~+70°C
- Operating Humidity 20~85% RH
- Mechanical: 12cm/6cm/2.5cm (L/W/H)

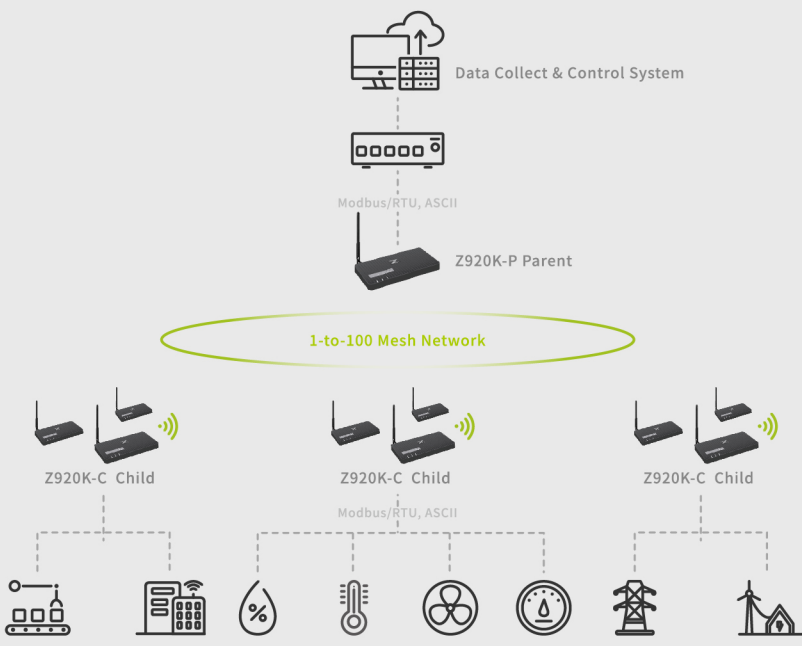
### Serial Port

- Port Type RS485-2W/RS485-4W/RS422 (Terminal) or RS232 (D-sub 9)
- Protocol Modbus/RTU, ASCII code
- Baud Rate 1200/2400/4800/9600/14400/19200/38400/57600/115200 bps
- DIP Switch (Baud rate/Parity/Stop bit)
- Max RS485 in-serial Connections 31
- Pull high/low impedance terminator for RS422/485

### Power

- USB Bus Power DC 5V in
- DC/AC In Unregulated 10-48Vdc in/ 10-24Vac in
- DC Out 12Vdc out (A power adaptor has to be used)

## APPLICATION SCENARIO



Keep the Same System and Sensors / Wiring to Wireless Quickly and Easily  
Long Distance Mesh Network / Sub-1G High Penetration

## CONSOLE APP FEATURES

### Configuration

- Basic configuration setting
- Communication setting

### Quick Installation

- New Network
- Add devices

### NFC

- Authentication
- Get/Write configuration

### Enhanced Data Security

#### Measurement Tool

- Channel Scanning
- PER/RSSI measurement



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