

# ADAM-2510Z

# ADAM-2520Z

## Wireless Router

## Wireless Modbus RTU Gateway



ADAM-2510Z



### Features

- Easy maintenance and field installation
- Low duty wireless communication
- Smart and simple indicator design
- Extends network range and coverage

### Specifications

#### Wireless Communication

- **IEEE Standard** IEEE 802.15.4
- **Modulation Type** DSSS (OQPSK)
- **Frequency Band** ISM 2.4 GHz (2.4 GHz ~ 2.4835 GHz)
- **Channels** 11 - 26
- **RF Data Rate** 250 Kbps
- **Transmit Power** Typ. 19 ± 1 dBm
- **Receiver Sensitivity** -97 dBm
- **Topology** Star / Tree / Mesh
- **Outdoor Range** 1000 m with line of sight (with 2 dBi Antenna)
- **Function** Router

#### General

- **Connectors** 1 x plug-in terminal block (#14 ~ 22 AWG)
- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>
- **Battery Input** 2 x AA Alkaline
- **Power Consumption** 0.8 W @ 24 V<sub>DC</sub>  
0.3 W @ 3 V<sub>DC</sub> (Battery AA \* 2)

### Common Specifications

#### Environment

- **Operating Temperature**  
External Power -20°C ~ 70°C (-4°F ~ 157.9°F)  
Battery Power 0°C ~ 50°C (32°F ~ 122°F)
- **Storage Temperature** -40°C ~ 85°C (-40°F ~ 184°F)
- **Operating Humidity** 20~95% RH
- **Storage Humidity** 0~95% RH

### Ordering Information

- **ADAM-2510Z** Wireless Router



ADAM-2520Z



### Features

- 2.4 GHz IEEE 802.15.4 compliant RF
- Provides RS-422/485 and USB interfaces
- Multiple power input design

### Specifications

#### Wireless Communication

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- **Modulation Type** DSSS (OQPSK)
- **Frequency Band** ISM 2.4 GHz (2.4 GHz ~ 2.4835 GHz)
- **Channels** 11 - 26
- **RF Data Rate** 250 Kbps
- **Transmit Power** Typ. 19 ± 1 dBm
- **Receiver Sensitivity** -97 dBm
- **Topology** Star / Tree / Mesh
- **Outdoor Range** 1000 m with line of sight (with 2 dBi Antenna)
- **Network Capacity** 32 nodes (Routers & End Devices)\*

#### Range Extenders

- **Function** Maximum 5 Hops  
Coordinator

#### General

- **Connectors** 1 x plug-in terminal block (#14 ~ 22 AWG)  
1 x USB-type A connector (type A to B cable provided)
- **Protocol** Modbus RTU
- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>
- **Battery Input** 2 x AA Alkaline
- **Power Consumption** 0.8 W @ 24 V<sub>DC</sub>  
0.5 W @ 5 V<sub>DC</sub> (USB)  
0.3 W @ 3 V<sub>DC</sub> (Battery AA \* 2)

### Common Specifications

#### Environment

- **Operating Temperature**  
External Power -20°C ~ 70°C (-4°F ~ 157.9°F)  
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- **ADAM-2520Z** Wireless Modbus RTU Gateway