



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# ADAM-2520Z

# ADAM-2510Z

## Wireless Modbus RTU Gateway

## 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

#### General

- **Function** Coordinator
- **Network Capacity** 32 nodes (Routers & End Devices)  
(Based on user's configuration)
- **Range Extenders** Maximum 5 Hops
- **Protocol** Modbus RTU
- **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)

### Ordering Information

- **ADAM-2520Z** 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

#### General

- **Function** Router
- **Power Consumption** 0.8 W @ 24 V<sub>DC</sub>  
0.3 W @ 3 V<sub>DC</sub> (Battery AA \* 2)

### Ordering Information

- **ADAM-2510Z** Wireless Router

## Common 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** 3 ± 1 dBm (ADAM-2031Z)  
15 ± 1dBm (ADAM-2017PZ)
- **Receiver Sensitivity** -97 dBm
- **Topology** Star / Tree / Mesh
- **Outdoor Range** 1000 m with line of sight (with 2 dBi Antenna)

#### General

- **Connectors** 1 x plug-in terminal block (#14 ~ 22 AWG)  
1 x USB-type A connector (type A to B cable provided) (ADAM-2520Z only)
- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>  
or USB 5 V<sub>DC</sub> (ADAM-2520Z only)
- **Battery Input** 2 x AA Alkaline

#### 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