ADAM-2520Z
Wireless Modbus RTU Gateway
ADAM-2510Z
Wireless Router

ADAM-2520Z SRRC R&TTE FC CE RoHS COMPLIANT 2002/95/EC

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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_{DC}
                           0.5 W @ 5 V_{DC} (USB)
                           0.3 W @ 3 V_{DC} (Battery AA * 2)

Ordering Information

- **ADAM-2520Z**   Wireless Modbus RTU Gateway

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_{DC}
                           0.3 W @ 3 V_{DC} (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_{DC}
                           or USB 5 V_{DC} (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

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