ADAM-2520Z
Wireless Modbus RTU Gateway

ADAM-2510Z
Wireless Router

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

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

ADAM-2510Z SRRC (((R&TTE FC CE RoHS COMPLIANT 2002/95/EC

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