

Wireless Power Plug with Power Meter Z809A Data Sheet

Wireless Sensor Network Based on ZigBee Technology



Z809A

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Wireless Power Plug with Power Meter

General Description

The Z809A is a smart-home, high-reliability measurable power consumption and switch-enabled socket for indoor use. It integrates a chip module that conforms to the ZigBee Pro™ wireless protocol, and can be used with ZigBee network routers, coordinators, and the terminal communicates.

The Z809A can be combined with a terminal device with a switching function, mainly for measuring electrical power consumption and wireless switch control.

Main Characteristic

- Compliant with ZigBee Pro™ protocol specification for ZigBee intelligent network
- Use the 2.4GHz ISM band for a total of 16 channels
- Wireless communication distance is 150 meters (depending on the specific environment)
- Built-in serial communication FLASH memory AT25DF021, 2Mbits capacity

Example Applications

- Indoor Only
- Others

Technical Specifications

Electric

Rated working power supply	85-250VAC, 50/60Hz
Typical Operating Current	15mA/220VAC
Typical Load Characteristics	Resistive load (Max.): 16A/250VAC Inductive load: 8A/220VAC (COSφ=0.4) Motor load: 1.5HP/240VAC (Motor Load)
Relay Switch Life Times	100,000 times
Current Measurement Accuracy Range	50mA~16A
Energy Measurement Error	<+-1%

* Specific electrical characteristics may vary depending on the power supply voltage.

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Frequency

Frequency Bandwidth	2.4~2.4835 GHz
Communication Channel	16 channels (ISM 11th to 26th channel)
Power Output	7dBm (maximum)
Receive Sensitivity	-101dBm
Antenna Type	Built-in Antenna
Communication Distance	150 meters (depending on the specific environment)
Data Transfer Rate	250Kbps
Modulation Method	DSSS(O-QPSK)

Physical

Dimension	95mm*56.2mm*34mm (without plug part)
Environment Temperature Range	-20°C ~ 50°C
Environment Humidity Range	<90% RH (No condensation)
Storage Temperature	-40°C ~ 85°C

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