



WLRI-P11M

Wireless Plug-and-Play Power Outlet with Consumption Meter

This power plug can support up to 15Amps powering most of the residential/commercial power equipment. Ideal to monitor power for machines that need to be ON all the time. Monitor power consumption, voltage, Amps, power failure and number of timed used per day to any connected equipment. Great for extending life cycle by identifying frequently used equipment such as in gym.

Features:

- Super Long Range Signal Penetration
- Easy Installation
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Over-the-air updates
- Interactive WatchNET IoT platform with dashboard, search and notification settings



Applications:

- Gym equipment used cycles per day
- Medical storage refrigerators
- Food storage freezers
- Aquariums and reptile cages
- Remote On/Off connected devices

Schematic Diagram:



Technical Specifications

| Electrical | |
|--------------------------------------|---|
| Rated working power supply | 100-240VAC, 50/60Hz |
| Typical Operating Current | 15mA/220VAC/1W |
| Typical Load Characteristics | Resistive load: 16A/250VAC; P:4000VA Inductive load: 8A/220VAC; P:1760VA(COSφ=0.4) Motor load: 1.5HP/240VAC White Lamp, fluorescent lamp,gold halogen lamp: 3000W/220VAC |
| Relay Switch Life Times | 100,000 times |
| Current Measurement Accuracy Range | 100mA~16A |
| Battery Voltage Measurement Accuracy | ±0.1V |

**The actual electrical characteristics will vary depending on the power supply voltage.*

| Frequency | |
|---------------------|---|
| TX Power | 19dBm±1dBm |
| Rx Sensitivity | -136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps) |
| Antenna Type | Built-in antenna |
| Communication Range | Up to 500m/0.310miles, the actual transmission distance depends on the environment* |
| Data Transfer Rate | 0.3kbps ~ 50kbps |
| Spread Technique | LoRa FSK |
| Available Frequency | EU863-870, US902-928, Configured before shipment |

| Physical | |
|-------------------------------|--|
| Dimension | 95mm x 58mm x 42.5mm / 3.74" x 2.28" x 1.67" (without plug part) |
| Protection Class | Main Part IP20 |
| Environment Temperature Range | -20°C ~ 50°C / -4°F ~ 122°F |
| Environment Humidity Range | <90%RH (No condensation) |
| Storage Temperature | -40°C ~ 85°C / -40°F ~ 185°F |

** Actual signal range may vary depending on the environment.*

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