

Knowledge Base / Devices / Shelly Plus devices

Shelly Plus Plug US



Device identification

- Device name: **Shelly Plus Plug US**
- Device model: **SNPL-00116US**
- Device SSID: **ShellyPlusPlugUS-XXXXXX**

Short description

Shelly Plus Plug US (The Device) is a smart plug/outlet with power measurement and overheating protection, which allows remote control of electric appliances through a mobile phone, tablet, PC, or home automation system. It can work standalone in a local Wi-Fi network or it can also be operated through cloud home automation services.

Shelly Plus Plug US can be accessed, set up and monitored remotely from any place where the User has internet connectivity, as long as the device is connected to a Wi-Fi router and the Internet.

The Device has an embedded Web Interface which can be used to monitor and control the device, as well as adjust its settings.



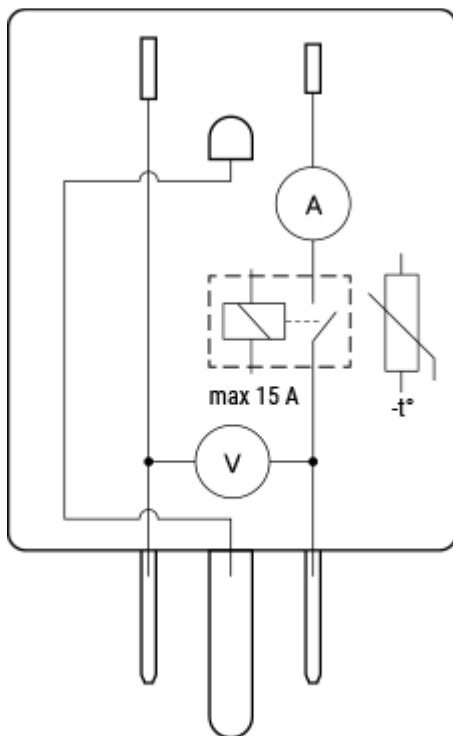
Main applications

- Residential
- MDU (Multi Dwelling Units - apartments, condominiums, hotels, etc.)
- Light commercial (small office buildings, small retail/restaurant/gas station, etc.)
- Government/municipal
- University/college

Integrations

- Google
- Samsung SmartThings
- Alexa

Simplified internal schematics



Device electrical interfaces

Input

- 1 NEMA 5-15 (Type-B) plug

Output

- 1 NEMA 5-15 (Type-B) socket

Connectivity

- Wi-Fi
- Bluetooth

Safety features

- Overheating protection
- Overvoltage protection
- Overcurrent protection
- Overpower protection

Supported load types

- Resistive (incandescent bulbs, heating devices)
- Capacitive (capacitor banks, electronic equipment, motor start capacitors)
- Inductive (LED light drivers, transformers, fans, refrigerators, air-conditioners)

User interface

Inputs

- One push button

- Press and hold for 5 sec to reboot (Possible up to 60 sec after plugging in the Device).
- Press and hold for 10 sec to factory reset (Possible up to 60 sec after plugging in the Device).

Outputs

- LED indication
 - Blue flashing quickly: AP Mode
 - Blue flashing slowly: Connected to a Wi-Fi network
 - Blue still: Connected to Shelly Cloud
 - Red still: Power supplied to the plugged appliance
 - Red flashing slowly: Reboot initiated (Power button pressed for 5 sec.)
 - Red flashing quickly: Factory reset initiated (Power button pressed for 10 sec.)
 - Red and Blue flashing alternately: Firmware update

Specifications



Type	Value
Physical	
Size (HxWxD):	38x84x52 ±0.5 mm / 1.5x3.3x2.0 in ±0.02 in
Weight:	70 ±1 g / 2.47 ±0.04 oz
Compatible sockets:	NEMA 5-15 (Type-B)
Compatible plugs:	NEMA 1-15 (Type-A) and NEMA 5-15 (Type-B)
Shell material:	Plastic

Color:	White
Environmental	
Ambient temperature:	-20 °C to 40 °C / -5 °F to 105 °F
Humidity	30 % to 70 % RH
Max. altitude	2000 m / 6562 ft
Electrical	
Power supply voltage AC:	120 V ±10 %, 60 Hz
Power supply voltage DC:	N/A
Power consumption:	< 1 W
Output circuits ratings	
Max switching voltage AC:	140 V
Max switching voltage DC:	N/A
Max switching current AC:	15 A
Max switching current DC:	N/A
Sensors, meters	
Internal-temperature sensor:	Yes
Voltmeter:	Yes
Ammeter:	Yes
Power and energy meters:	Yes
Radio	

RF band:	2400 - 2495 MHz
Max. RF power:	<20 dBm
Wi-Fi protocol:	802.11 b/g/n
Wi-Fi Range:	Up to 30 m / 100 ft indoors and 50 m / 160 ft outdoors (Depends on local conditions)
Bluetooth Protocol:	4.2
Bluetooth Range:	Up to 10 m / 33 ft indoors and 30 m / 100 ft outdoors (Depends on local conditions)
MCU	
CPU:	ESP32
Flash:	4 MB
Firmware capabilities	
Webhooks (URL actions):	20 with 5 URLs per hook
Scripting:	Yes
MQTT:	Yes
CoAP:	No

Troubleshooting

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Components and APIs

- [This device](#)
- [All Shelly devices and services](#)

Printed user guide

- [Shelly Plus Plug US multilingual printed user and safety guide.pdf](#)

Installation guides

- [Shelly Plus Plug US User and Safety Guide](#)



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