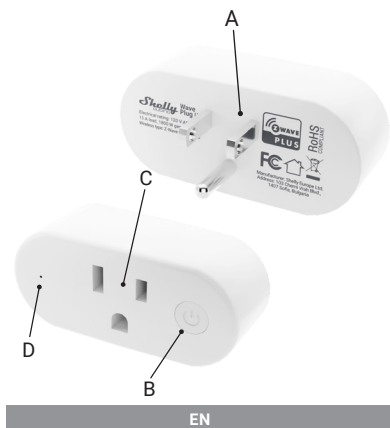




# Shelly

QUBINO

## Wave Plug US



### LEGEND

- A: Plug
- B: S button
- C: Socket
- D: LED

**Packaging contents:** Device, user guide, Z-Wave™ DSK label

## USER AND SAFETY GUIDE

### Z-Wave™ smart plug US with power measurement

#### READ BEFORE USE

This document contains important technical and safety information about the Device, its safe use and installation.

**CAUTION!** Before beginning the installation, please read carefully and entirely this guide and any other documents accompanying the Device. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of law or refusal of legal and/or commercial guarantee (if any). Shelly Europe Ltd. is not responsible for any loss or damage in case of incorrect installation or improper operation of this Device due to failure of following the user and safety instructions in this guide.

#### TERMINOLOGY

**Gateway** - A Z-Wave™ gateway, also referred to as a Z-Wave™ controller, Z-Wave™ main controller, Z-Wave™ primary controller, or Z-Wave™ hub, etc., is a device that serves as a central hub for a Z-Wave™ smart home network. The term **gateway** is used in this document.

**S button** - The Z-Wave™ Service button, which is located on Z-Wave™ devices and is used for various functions such as inclusion (adding), exclusion (removing), and resetting the device to its factory default settings. The term **"S button"** is used in this document.

**Device** - In this document, the term **"Device"** is used to refer to the Shelly Qubino device that is a subject of this guide.

#### ABOUT SHELLY QUBINO

Shelly Qubino is a line of innovative microprocessor-managed devices, which allow remote control of electric circuits with a smartphone, tablet, PC, or home automation system. They work on Z-Wave™ wireless communication protocol, using a gateway. When the gateway is connected to the internet, you can control Shelly Qubino devices remotely from anywhere. Shelly Qubino devices can be operated in any Z-Wave™ network with other Z-Wave™ certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. Devices are designed to work with older generations of Z-Wave™ devices and gateways.

#### ABOUT THE DEVICE

The Device is a smart plug/outlet with power measurement and overheating protection, which allows remote control of electric appliances with a mobile phone, tablet, PC, or home automation system.

#### INSTALLATION INSTRUCTIONS

The Device can be plugged into standard IEC Type B sockets and accepts standard IEC Type B plugs.

**CAUTION!** Use the Device only with a power grid and appliances that comply with all applicable regulations. A short circuit in the power grid or any appliance connected to the Device may damage it.

**CAUTION!** Do not connect the Device to appliances exceeding the given max. load!

**CAUTION!** Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.

**CAUTION!** Do not install the Device where it can get wet.

**CAUTION!** Do not use the Device if it has been damaged!

**CAUTION!** Do not attempt to service or repair the Device yourself!

**CAUTION!** Do not allow children to play with the Device, especially with the S button. Keep the devices for remote control of Shelly Qubino (mobile phones, tablets, PCs) away from children.

**CAUTION!** The product is intended for indoor use only.

**CAUTION!** Protect the product from dirt and moisture! Do not use the product in a damp environment!

Insert the Device into a power socket without an appliance/load connected to it. You can now plug an appliance/load into the Device socket. To turn on the appliance/load, briefly press the S button.

The LED will turn blue if the load is between 0 W and 85% of the max. load and red if the load is more than 85% of the max. load.

#### Z-WAVE™ ADDING / REMOVING / FACTORY RESET

**Note!** All Device outputs (O1, O2, etc. - depending on the Device type) will turn the load 1s on/1s off / 1s on/1s off if the Device is successfully added to/removed from a Z-Wave™ network.

**Note!** In case of Security 2 (S2) adding (inclusion), a dialog will appear asking you to enter the corresponding PIN Code (5 underlined digits) that are written on the Z-Wave™ DSK label on the side of the Device and on the Z-Wave™ DSK label inserted in the packaging. **IMPORTANT: The PIN Code must not be lost.**

#### Adding the Device to a Z-Wave™ network (inclusion)

##### SmartStart adding (inclusion):

SmartStart enabled products can be added into a Z-Wave™ network by scanning the Z-Wave™ QR Code present on the Device with a gateway providing SmartStart inclusion. No further action is required, and the SmartStart device will be added automatically within 10 minutes of being switched on in the network vicinity.

- With the gateway application scan the QR code on the Device label and add the Security 2 (S2) Device Specific Key (DSK) to the provisioning list in the gateway.
- Plug the Device into a power socket.
- Check if the blue LED is blinking in Mode 1. If so, the Device is not added to a Z-Wave™ network.
- Adding will be initiated automatically within a few seconds after plugging the Device into a power socket, and the Device will be added to a Z-Wave™ network automatically.
- The blue LED will be blinking in Mode 2 during the adding process.
- The violet LED will be blinking in Mode 1 if the Device is successfully added to a Z-Wave™ network.

##### Adding (inclusion) with the S button:

- Plug the Device into a power socket.
- Check if the blue LED is blinking in Mode 1. If so, the Device is not added to a Z-Wave™ network.
- Enable add/remove mode on the gateway.
- To enter the Setting mode, quickly press and hold the S button on the Device until the LED turns solid blue.
- Quickly release and then press and hold (> 2s) the S button on the Device until the blue LED starts blinking in Mode 3. Releasing the S button will start the Learn mode\*.
- The blue LED will be blinking in Mode 2 during the adding process.
- The violet LED will be blinking in Mode 1 if the Device is successfully added to a Z-Wave™ network.

\*Learn mode - a state that allows the Device to receive network information from the gateway.

#### Removing the Device from a Z-Wave™ network (exclusion)

**Note!** The Device will be removed from your Z-wave™ network, but any custom configuration parameters will not be erased.

##### Removing (exclusion) with the S button:

- Plug the Device into a power socket.
- Check if the violet LED is blinking in Mode 1. If so, the Device is added to a Z-Wave™ network.
- Enable add/remove mode on the gateway.
- To enter the Setting mode, quickly press and hold the S button on the Device until the LED turns solid blue.
- Quickly release and then press and hold (> 2s) the S button on the Device until the blue LED starts blinking in Mode 3. Releasing the S button will start the Learn mode.
- The blue LED will be blinking in Mode 2 during the removing process.
- The blue LED will be blinking in Mode 1 if the Device is successfully removed from a Z-Wave™ network.

**Note!** In Setting mode, the Device has a timeout of 10s before entering again into Normal mode.

#### Factory reset

After Factory reset, all custom parameters and stored values (kWh, associations, routings, etc.) will return to their default state. HOME ID and NODE ID assigned to the Device will be deleted. Use this reset procedure only when the gateway is missing or otherwise inoperable.

##### Factory reset with the S button:

**Note!** Factory reset with the S button is possible anytime.

- To enter the Setting mode, quickly press and hold the S button on the Device until the LED turns solid blue.
- Press the S button multiple times until the LED turns solid red.
- Press and hold (> 2s) S button on the Device until the red LED starts blinking in Mode 3. Releasing the S button will start the factory reset.
- During factory reset, the LED will turn solid violet.
- The blue LED will be blinking in Mode 1 if the factory reset is successful.

**Note!** For more information about this Device refer to the Extended User Guide available at: <https://kb.shelly.cloud/>

#### LED SIGNALIZATION

LED blinking modes	
Mode 1	0,5s On/2s Off
Mode 2	0,5s On/0,5s Off
Mode 3	0,1s On/0,1s Off

Mode 4	(1x to 7x - 0,2s On/0,2s Off) + 2s Off
Mode 5	0,2s On blue/0,2s On red

Normal mode	Colour	LED mode
Excluded/Removed	Blue	Mode 1
Included/Added	Violet	Mode 1
Load between 0 W and 85% of the max. load	Blue	Solid
Load > 85% of the max. load	Red	Solid
<b>Setting mode (with S button)</b>		
Adding/Removing (Inclusion/Exclusion) menu selected	Blue	Solid
Adding/Removing (Inclusion/Exclusion) menu - while pressing S button - Adding/Removing (Inclusion/Exclusion) process selected	Blue	Mode 3
Factory reset menu selected	Red	Solid
Factory reset - while pressing S button - Factory reset process selected	Red	Mode 3
<b>"Setting in progress" mode</b>		
Factory reset and reboot	Violet	Solid
Adding/Removing (Inclusion/Exclusion)	Blue	Mode 2
OTA firmware updating	Blue/Red	Mode 2
<b>Alarm mode</b>		
Overcurrent detected O	Red	Mode 4 (1x)
Overheat detected	Red	Mode 4 (2x)
Overvoltage detected	Red	Mode 4 (7x)

#### SPECIFICATION:

Power supply	120 V ±10%, 60 Hz
Power consumption	< 0.3 W
Power measurement (W)	Yes
Max switching voltage AC	140 V
Max switching current AC	15 A
Overheating protection	Yes
Overcurrent protection	Yes
Overvoltage protection	Yes
Distance	up to 40 m indoors (131 ft.) (Depends on local condition)
Z-Wave™ repeater	Yes
CPU	Z-Wave™ S800
Z-Wave™ frequency band(s)	908.4 MHz
Maximum radio frequency power transmitted in frequency band(s)	< 25 mW
Size (H x W x D)	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
Ambient temperature	-20°C to 40°C / -5°F to 105°F
Humidity	30% to 70% RH
Max. altitude	2000 m / 6562 ft.

#### IMPORTANT DISCLAIMER

Z-Wave™ wireless communication may not always be 100% reliable. This Device should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the Device is not recognized by your gateway or appears incorrectly, you may need to change the Device type manually and ensure that

your gateway supports Z-Wave Plus™ multi-channel devices.

#### CLEANING

**CAUTION!** Before cleaning the Device power off the connected appliance by pressing the S button, unplug it and then unplug the Device itself. Never clean the Device if it is connected to the mains!

**CAUTION!** Use a wet soft cloth to clean the Device.

**CAUTION!** Do not use aggressive detergents!

**CAUTION!** Do not immerse the Device or wash it under running water!

#### DISPOSAL & RECYCLING

This refers to the waste of electrical and electronic equipment. It is applicable in the US and other countries to collect waste separately.

This symbol on the product or in the accompanying literature indicates that the product should not be disposed of in the daily waste. Wave Plug US must be recycled to avoid possible damage to the environment or human health from uncontrolled waste disposal and to promote the reuse of materials and resources. It is your responsibility to dispose of the device separately from general household waste when it is already unusable.

#### FCC NOTES

• This device complies with Part 15 of the FCC Rules.  
• Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

• The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

• This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

• RF exposure statement:  
-This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

#### ORDERING CODE: QNPL-001X16US

#### MANUFACTURER:

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Changes in the contact data are published by the Manufacturer at the official website: <https://www.shelly.com>



