



Knowledge Base / Devices / Add-ons

## Shelly LoRa Add-on



### Short description

Unlock up to 5 km of reliable communication with the Shelly LoRa Add-on. Designed for Shelly Gen3 and Gen4 devices, it redefines long-range connectivity, delivering secure performance in open spaces and dependable operation even in challenging environments.

Break barriers and extend control where other technologies can't reach. This compact add-on is perfect for automating city infrastructure, managing remote facilities, or optimizing precision agriculture. It supports custom scripts, giving you the flexibility to tailor functionality for the specific use case.

Easy to set up and transformative in its impact. Available now for EU868, with US915 and AU915-928 coming soon.

### Main features



- Communicate up to 5 km with ease, thanks to the external antenna.
- Seamlessly integrates with Shelly Gen3 and Gen4 devices for extended communication.
- Built to perform even in obstructed or hard-to-reach areas.
- Quick and simple setup - get started in no time.
- Supports custom scripts to address specific use cases.

## Use cases

- **Smart Street Lighting Automation**

Automate streetlights with LoRa-enabled relays for real-time control and monitoring. Adjust lighting schedules based on traffic or weather, monitor energy consumption, and receive fault alerts to reduce maintenance downtime and costs.

- **Precision Agriculture and Remote Irrigation**

Use LoRa-enabled relays to automate irrigation systems and lighting across remote fields. Control pumps, sprinklers, and lighting schedules based on soil moisture, weather data, and operational needs. Monitor environmental sensors and power consumption to optimize water usage, energy efficiency, and crop productivity without requiring on-site management.

- **Smart Parking Lot Lighting and Management**

Deploy LoRa Add-ons on parking lot lights for automated schedules and dimming based on activity. Trigger lights with motion sensors to save energy during low usage and enhance safety. Integrate LoRa communication for fault detection and monitoring, ensuring timely repairs and efficient maintenance.

- **Warehouse Automation and Control**

Automate warehouse lighting zones with dimming or switching to optimize energy usage and enhance visibility. Use LoRa-enabled relays for efficient energy monitoring and fault detection, ensuring seamless operation across large warehouse spaces.

- **Remote Facility Equipment Control**

Use LoRa Add-ons to automate and monitor pumps, lighting, and power systems in remote facilities. Optimize energy consumption by controlling equipment schedules based on operational requirements and environmental conditions. Receive real-time alerts for power or equipment failures, ensuring efficient management and minimal manual intervention.

## Main applications

- Residential
- MDU (Multi Dwelling Units - apartments, condominiums, hotels, etc.)...
- Light commercial (small office buildings, small retail/restaurant/gas station, etc.)...
- Industrial (factories, power plants, water processing, refineries, etc.)...
- Government/municipal
- University/college
- Farming

## Connectivity

- LoRa

## Add-on Interface

- Shelly proprietary serial interface to connect to a Shelly Gen3 and Gen4 devices

## Specifications



Quantity	Value
<b>Physical</b>	
Size (HxWxD):	40x42x11 mm / 1.58x1.66x0.44 inch
Weight:	10 g / 0.4 oz
Mounting:	Via the Shelly proprietary serial interface to connect to a Shelly compatible device
Shell material:	Plastic

Shell color:	Black
<b>Environmental</b>	
Ambient working temperature:	-20 °C to 40 °C / -5 °F to 105 °F
Max. altitude:	2000 m / 6562 ft
<b>Electrical</b>	
Power supply:	3.3 V (from compatible Shelly device)
Power consumption:	< 150 mW
<b>Supporting devices:</b>	<p>Shelly Gen3 Devices:</p> <ul style="list-style-type: none"> <li>• Shelly 1 Gen3</li> <li>• Shelly 1PM Gen3</li> <li>• Shelly 2PM Gen3</li> <li>• Shelly EM Gen3</li> <li>• Shelly Dimmer 0/1-10V PM Gen3</li> <li>• Shelly DALI Dimmer Gen3</li> </ul> <p>Shelly Gen4 Devices:</p> <ul style="list-style-type: none"> <li>• Shelly 1 Gen4</li> <li>• Shelly 1PM Gen4</li> <li>• Shelly 2PM Gen4</li> </ul>
<b>Radio</b>	
<b>LoRa</b>	
RF band:	<ul style="list-style-type: none"> <li>• EU868</li> <li>• US915 (coming soon)</li> <li>• AU915-928 (coming soon)</li> </ul>

Max. RF power:	< 14 dBm
Range:	Up to 5 000 m / 16 400 ft (Depends on local conditions)

## Scripting examples

<https://github.com/ALLTERCO/shelly-script-examples>

## Troubleshooting

**Q:** Why is my Shelly Gen3 or Gen4 device not recognizing the LoRa Add-on?

**A:** Please check the following:

1. Ensure your Shelly LoRa Add-on is mounted securely on a **compatible Shelly Gen3 or Gen4** host device.
2. Confirm that the **host device is running firmware version 1.6 or later**.
3. Verify that the LoRa Add-on is **properly connected to the proprietary Shelly serial interface** (used to connect Add-ons to Gen3/Gen4 devices).

## Compliance and certification

- [Shelly LoRa Add-on multilingual EU declaration of conformity.pdf](#)
- [Shelly LoRa Add-on UK PSTI ACT Statement of compliance.pdf](#)

## Printed user guide

- [Shelly LoRa Add-On multilingual printed user and safety guide.pdf](#)

