



WUM-SEP-LR

Compact smart socket EU
LoRa Mesh / LoRaWAN

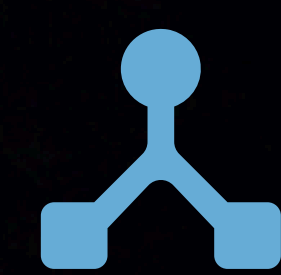
WUM-SEP-LR is a compact EU format smart socket supporting LoRa Mesh / LoRaWAN technology, designed for remote power control and monitoring in BMS, smart home, and automated management systems for commercial and technological infrastructure.



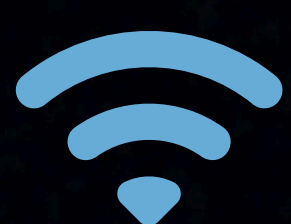
energy consumption
and load monitoring in a
single device



reliable long-range
communication via LoRa



suitable for remote and
distributed facilities



compact smart socket
with wireless control



easy integration into BMS,
smart home, and IIoT
systems



energy efficiency and
industrial reliability

CARATTERISTICI

The socket features a 16 A power relay for switching various electrical loads and a built-in current meter - up to 16 A for real-time energy consumption monitoring. The integrated LoRa communication module enables long-range data transmission, providing functions for remote control, consumption metering, and equipment protection.

The device combines a compact size, energy efficiency, and industrial-grade reliability, making it an ideal solution for residential, commercial, and industrial facilities.

AREAS OF APPLICATION

- ✓ Smart home and home automation
- ✓ BMS and EMS systems
- ✓ Energy consumption monitoring
- ✓ Commercial and office buildings
- ✓ Industrial facilities and technological systems
- ✓ Decentralized and remote installations
- ✓ IIoT and wireless control networks



FUNCTIONAL CHARACTERISTICS

Device Type	EU Smart Socket
Number of Relays	1
Relay Rated Current	16 A
Current Measurement	built-in, up to 16 A
Control Type	wireless (LoRa)

DIMENSIONS

Width	~60 mm
Height	~105 mm
Depth	~75 mm
Weight	60 g

KEY FEATURES

- EU socket format, compatible with European power outlets
- Wireless LoRa Mesh / LoRaWAN connectivity
- Communication range up to several kilometers (depending on conditions)
- 1 power relay up to 16 A
- Current meter (up to 16 A) for energy consumption monitoring
- Support for remote on/off switching
- Energy-efficient operation
- Compact design
- Socket and connection status indication
- Industrial-grade reliability

POWER SUPPLY

- Rated Voltage:
110-250 V AC, 50/60 Hz
- Power Consumption (no load): ≤ 3 W

POWER RELAY

- Load Rated Voltage: 220 V AC
- Rated Current: up to 16 A
- Electrical Endurance:
≥ 100 000 cycles
- Mechanical Endurance:
≥ 10 000 000 cycles

CURRENT MEASUREMENT

- Measurement Range: 0–16 A
- Measurement accuracy: ±1% (typ.)
- Data Update Rate: programmable

PACKAGE CONTENTS

- WUM-SEP-LR Smart Socket
- Datasheet / User Manual
- Packaging

WIRELESS INTERFACE

- Technology: LoRa Mesh / LoRaWAN
- Operating Frequency:
868 MHz (EU) / 915 MHz (US)
- LoRaWAN Device Class: A / C (configurable)
- Encryption: AES-128
- Antenna Type: External

FUNCTIONAL CAPABILITIES

- Remote On/Off switching of the socket
- Current measurement and consumption data transmission
- Relay status monitoring
- Device diagnostics
- Support for scenarios and control logic at the system level

INDICATION

- Power LED
- LoRa Connection Status LED
- Relay Status LED

FORM FACTOR

- Enclosure: Polycarbonate, fire-resistant
- Mounting: Standard EU socket
- Terminals: Built-in for Europlug
- Protection Rating: IP20

OPERATIONAL CONDITIONS

- Operating temperature: –20...+60 °C
- Storage temperature: –40...+85 °C
- Humidity:
up to 92%, without condensation

Descifrare model WUM-SEP-LR

WUM	Wireless Universal Multimesh
SEP	Smart Energy Plug
LR	LoRa + Relay



WUM

CONTACTS

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The information contained in this document may be changed without prior notice.