

# PowerCable IQRF 901x



**NETIO PowerCable IQRF is a smart power extension cable that communicates over the IQRF LPWAN network (868 MHz). The 230V/16A electrical socket features electricity metering (A, V, TPF, kWh, W, Hz) and can be switched On and Off with full IQRF Interoperable support.**

- IQRF (LPWAN 868 MHz)
- Supports **IQRF Interoperable** (IQMESH)
- Output can be switched on/off, power-cycled
- Electricity consumption metering, 6 measured values (kWh, A, V, W, Hz, TPF).
- **ZCS** (Zero Current Switching) + PowerUp state
- IQRF bonding with the press of a button
- Socket types: DE (Type F) a FR (Type E)



IQRF is a LPWAN network operating at 868 MHz, for consumer and industrial use. PowerCable IQRF is an electricity consumption sensor as well as a switching element (controlled power socket).

The product includes a Smart connect QR code for easy connection to an IQRF MESH network. PowerCable IQRF is constantly powered, so it also acts as a repeater in the IQRF MESH network.

PowerCable IQRF is certified as an "IQRF Interoperable" device. This means that energy metering values can be accessed by other devices in the IQRF network as well as in the configuration software (IQRF IDE). The electrical socket can be controlled as an I/O output.

We supply different versions for different markets. The "x" in the 901x designation indicates the electrical socket and plug type.



**SMART HOMES  
INDUSTRIAL PREMISES**



**RF CONTROL OF ELECTRICAL OUTLETS**



**CONSUMPTION METERING,  
MACHINERY DIAGNOSTICS**



**SWITCHING AUDIOVISUAL EQUIPMENT  
ON/OFF (BEAMERS, AMPLIFIERS, ...)**



**ENERGY SAVINGS**



**SMART GRID**

## FEATURES

- **901x: Several models for different markets**
  - 101F (DE "Schuko" – most of Europe)
  - 101E (FR – France, Poland, Czechia, Slovakia)
- IQRF Interoperable standard
- QR code for a quick connection into an IQRF network
- Smart connect
- **ZCS** (Zero Current Switching)
- **IOC** (Independent Output Control) – output state is unaffected by firmware update
- **Power measurements**
  - Current [A]
  - Voltage [V]
  - Consumption [kWh]
  - Output power [W]
  - TPF (True Power Factor)
  - Frequency [Hz]
- Measurement accuracy: 1% (25°C)
- **Measurements and control features**
  - Push-button (bonding to the network)
  - IQRF IDE
  - IQRF Interoperable
- **Protocols:** IQRF, DPA



## AVAILABLE MODELS



### PowerCable IQRF 901F

901F is the „DE“ Schuko version for most of EU.

### PowerCable IQRF 901E

901E is the „FR“ version for France, Czech Republic, Slovakia and Poland.

## SPECIFICATIONS

### POWER

- Input: 230V
- Output: On/Off (relay)
- **ZCS** (Zero Current Switching): Yes
- Maximum current: 16A
- Internal consumption: Max 2 W
- Default output state: On/Off/Last state

### INTERFACES

- IQRF: 868 MHz (LPWAN)
- IQRF: DPA 4.01, Interoperable
- IQRF: STD mode

- QR code for easy installation
- 2x LED indicator

### PACKAGE CONTENTS

- NETIO PowerCable IQRF 901x
- QIG - Quick Installation Guide

### DIMENSIONS AND WEIGHT

- Device: 180x40x30 mm + 2x cable
- Cables: 2x0,85 m
- Package: 260x93x100 mm / 0,5 Kg

### OPERATING CONDITIONS

- Temperature -10 °C to 65 °C
- Max current: 16A to 30°C, max 5A at 65°C
- For indoor use only (IP30)

**STANDARDS:** RED CE, NV 426/2016, EN 50581: 2012