

# NETIO PowerBOX 4Kx

**PowerBOX 4Kx is a LAN controlled power strip with 4 outputs. Each output can be switched off and on over the web, NETIO cloud service, or with a mobile app.**

**Open API enables integration into 3rd party systems using a wide range of protocols (http JSON, Modbus/TCP, SNMP, MQTT, Telnet, ...).**

**Power consumption (A, W, kWh, TPF, V, Hz) is measured on each power output separately with high precision.**

- 4x output (electrical socket)
  - Each output can be switched on and off individually
  - Electrical measurements (A, W, kWh, TPF, V, Hz)
- 
- Open API (10 protocols)
  - **ZCS** – Zero Current Switching
  - Service: NETIO Cloud
  - Mobile App: NETIO Mobile2



Each of four power sockets can be independently controlled from the product web interface (switched on/off or power-cycled). To switch the outputs on in a sequence, a power-up delay interval can be configured for each output.

**Electrical parameters** are measured with high accuracy at each output individually (A, W, kWh, TPF, V, Hz).

The **NETIO Mobile2** app controls each output individually over LAN (local network) or NETIO Cloud.

**NETIO Cloud** is a SSL-secured service for controlling multiple devices from anywhere (1 screen for controlling 100 outputs).

**Open API** allows controlling the outputs over the network using various protocols (http XML/JSON, Modbus/TCP, MQTT, SNMP, Telnet and more... ).

**The Scheduler function** switches outputs on and off at configured times. It works locally, even without Internet connection.

**AV drivers** make it easy to connect NETIO sockets to professional Audio/Video systems such as Neets, Crestron, Control4, RTI, Savant and more.



UK  
4KG



DE  
4KF



FR  
4KE



**Power consumption monitoring**



**Remote switching off/on or power cycling of electrical socket**



**Restart over the WEB interface**



**Mobile app (LAN/Cloud)**



**Central web interface (NETIO Cloud)**



**Configurable sequence for switching sockets after power-up**



**Drivers for AV media/installations (Neets, Crestron, Control4, RTI, Savant, ...)**

## FEATURES

- 4x output (electrical socket)
  - Each output can be switched on / off individually
  - Methods of controlling each output:
    - WEB browser
    - Mobile App (NETIO Mobile 2)
    - Open API (10 protocols)
    - NETIO Cloud
- 
- **NETIO Mobile2:** Mobile App
  - **NETIO Cloud:** Paid service
- 
- **ZCS** (Zero Current Switching): The relay is switched when the current is crossing zero. ZCS significantly reduces negative effect of high Inrush Current and prolongs lifetime of a relay.
  - **PowerUp State:** Adjustable default output state (On/Off/Last state)
  - **PowerUp Delay:** Delay before switching the output on
  - **Scheduler function:** Each output can be switched according to its time schedule (calendar)
- 
- **Open API (protocols)**
    - JSON over HTTP
    - Modbus/TCP
    - MQTT-flex
    - Telnet
    - SNMP (SNMP v1/v3)
    - XML over HTTP
    - HTTP(s) push (JSON/XML)
    - URL API – HTTP get
- 
- Supported protocols: HTTP, DNS, NTP, uPNP, DHCP, ICMP, TCP/IP

### SUPPORT FOR USERS AND DEVELOPERS

- **NETIO Wiki** – library for developers
- **ANxx** (Application Notes) with examples
- **NETIO Drivers** - for AV systems

- NETIO PowerBOX 4KF** Electrical sockets controlled over a LAN. 4 outputs Type F (Schuko) 230V / 16A, used in most of Europe.
- NETIO PowerBOX 4KE** Electrical sockets controlled over a LAN. 4 outputs Type E (FR) 230V / 16A, used in France, CZ, SK, PL.
- NETIO PowerBOX 4KG** Electrical sockets controlled over a LAN. 4 outputs Type G (UK) 230V / 13A, used in UK and Ireland.
- NETIO MK1 PowerBOX** Set of two brackets for mounting a PowerBOX 4Kx and PowerBOX 3Px products on a wall.

## SPECIFICATIONS

### 4Kx PRODUCT MODELS

- **PowerBOX 4KF:**  
4x el . socket Type F (Schuko)/230V/Max 16A (per output)
- **PowerBOX 4KE:**  
4x el . socket Type E (FR)/230V/Max 16A (per output)
- **PowerBOX 4KG:**  
4x el . socket Type G (UK)/230V/Max 13A (per output)

### POWER

- Power input: Electrical plug + 1.6m cable
- Power output: 4x electrical socket
- Each output: On/Off (SPST-NO relay, IOC)
- **ZCS** (Zero Current Switching): Yes
- Internal consumption: 1-2 W

### INTERFACE

- LAN 10/100 Mbps (RJ-45)
- LED indicators in the RJ45 jack

### ELECTRICAL MEASUREMENTS (1% accuracy)

- 4x Current [A]
- 4x Consumption [Wh]
- 4x Power [W]
- 4x TPF (True Power Factor)
- 4x Phase [°]
- Frequency [Hz]
- Voltage [V]
- Reverse Energy [Wh]

### PACKAGE CONTENTS

- NETIO PowerBOX 4Kx
- QIG (printed Quick Installation Guide)

### DIMENSIONS / WEIGHT

- PowerBOX 4Kx: 320-368 x 62 x 62 mm/1.1 kg
- Package: 73 x 204 x 390-514 mm/1.3 kg

### OPERATING CONDITIONS

- Temperature -20 °C to 65 °C , For indoor use only (IP30)

**NORMS:** 1999/5/EC, 2006/95/EC, EN 62368, EN 60950-1, EN 62368, EN 50581:2012, EN 61000