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

PowerBOX 4KG   PowerBOX 4KF   PowerBOX 4KE

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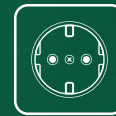
Open API allows controlling the outputs over the network using various protocols (http XML/JSON, Modbus/TCP, MQTT, SNMP, Telnet and more...).

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, SNMP, MQTT, ICMP, Modbus/TCP

SUPPORT FOR USERS AND DEVELOPERS
- **NETIO Wiki** – library for developers
- **ANxx** (Application Notes) with examples
- **NETIO Drivers** - for AV systems

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
- 4x Current [A]
- 4x Consumption [kWh]
- 4x Power [W]
- 4x TPF (True Power Factor)
- 4x Phase [°]
- Frequency [Hz]
- Voltage [V]
- Accuracy: <1% (25 °C)

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: 75 x 206 x 388-512 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

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.