

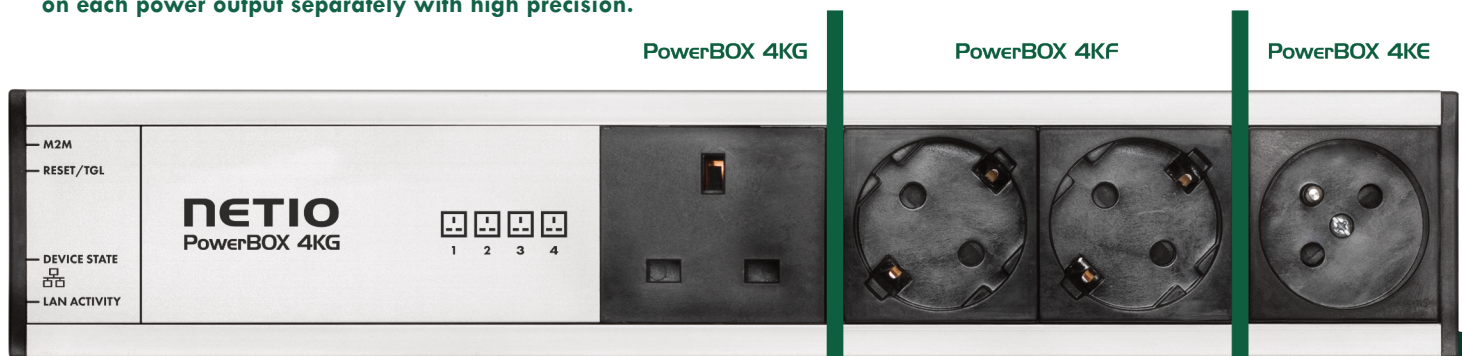
# NETIO PowerBOX 4Kx (WiFi)

PowerBOX 4Kx is a LAN (& WiFi) 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.

Wide range of AV drivers helps connect the PowerBOX 4Kx (and PowerBOX 4Kx WiFi) to professional AV systems (Crestron, Control4, RTI, Utology, Kramer, SKAARHOJ, Pixilab etc.).

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 on each socket (A, W, kWh, TPF, V, Hz)
- 
- Open API (10 protocols)
  - Web interface, HTTPs
  - Online Service: NETIO Cloud
  - Mobile App: NETIO Mobile 2



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 Mobile 2** app controls each output individually over LAN (local network) or NETIO Cloud.

**NETIO Cloud** is a TSL-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 Utology, Crestron, Control4, RTI, Savant, SKAARHOJ, Pixilab and more.



Product version  
PowerBOX 4Kx  
with WiFi available.



UK  
4KG



DE  
4KF



FR  
4KE

Three types  
of sockets.



Power consumption monitoring



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  
(Utology, Crestron, Control4, RTI, Savant,  
SKAARHOJ...)

## 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
  - Week Scheduler
  - WatchDog (Power & Ping)
  - Rulers & Conditions
- **NETIO Mobile 2:** Mobile App
- **NETIO Cloud:** Paid service
- **ZCS** (Zero Current Switching): Switching when current's zero. ZCS reduces negative effect of high Inrush Current.
- **Ping WatchDog:** Autonomous ping restarter
- **Power WatchDog:** IDLE mode detection & restarter
- **PowerUp State:** Default (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(s)
- Modbus/TCP
- MQTT-flex
- Telnet
- SNMP (SNMP v1/v3)
- XML over HTTP(s)
- HTTP(s) push (JSON/XML)
- URL API – HTTP(s) get

- Supported protocols:  
HTTP(s), 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

## SPECIFICATIONS

### 4Kx PRODUCT MODELS

- PowerBOX 4KF (DE)
- PowerBOX 4KE (FR)
- PowerBOX 4KG (UK)
- PowerBOX 4KF WiFi (DE)
- PowerBOX 4KE WiFi (FR)
- PowerBOX 4KG WiFi (UK)

### 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
- **Device's internal consumption:** 1-2 W

### INTERFACE

- LAN 10/100 Mbps (RJ-45)
- WiFi: 802.11b/g/n external RP-SMA (**WiFi version only**)
- 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 [°]
- 4x Reverse Energy [Wh]
- Frequency [Hz]
- Voltage [V]

### PACKAGE CONTENTS

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

### DIMENSIONS / WEIGHT

- PowerBOX 4Kx: 320-368 x 62 x 62 mm/1.1 kg
- PowerBOX 4Kx WiFi: 340-388 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:** EN 62368, EN 60950, EN61000, EN50581

<b>NETIO PowerBOX 4KF</b>	Electrical sockets controlled over a LAN. 4 outputs Type F (Schuko) 230V / 16A (per output), used in most of Europe.
<b>NETIO PowerBOX 4KE</b>	Electrical sockets controlled over a LAN. 4 outputs Type E (FR) 230V / 16A (per output), used in France, CZ, SK, PL.
<b>NETIO PowerBOX 4KG</b>	Electrical sockets controlled over a LAN. 4 outputs Type G (UK) 230V / 13A (per output), used in UK and Ireland.
<b>NETIO PowerBOX 4KF WiFi</b>	Electrical sockets controlled over a LAN & WiFi. outputs Type F (Schuko) 230V / 16A (per output), used in most of Europe.
<b>NETIO PowerBOX 4KE WiFi</b>	Electrical sockets controlled over a LAN & WiFi. 4 outputs Type E (FR) 230V / 16A (per output), used in France, CZ, SK, PL.
<b>NETIO PowerBOX 4KG WiFi</b>	Electrical sockets controlled over a LAN & WiFi. 4 outputs Type G (UK) 230V / 13A (per output), used in UK and Ireland.
<b>NETIO MK1 PowerBOX</b>	Set of two brackets for mounting a PowerBOX 4Kx and PowerBOX 3Px products on a wall.
<b>NETIO MK2 PowerBOX 19 horizontal</b>	Set of two brackets for mounting a PowerBOX 4Kx and PowerBOX 3Px products to a 19" rack horizontally.
<b>NETIO MK3 PowerBOX 19 vertical</b>	Set of two brackets for mounting a PowerBOX 4Kx and PowerBOX 3Px products to a 19" rack vertically.