# Power sockets over IQRF, LAN, WiFi

*Power sockets 110/230V controlled over IQRF, LAN and WiFi networks.*

NETIO
Networked power sockets

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# Networked power sockets

*Devices to measure energy consumption and switch ON / OFF the power socket over the network.*

NETIO
Networked power sockets

LAN

WiFi

230V / 50Hz

80W / 0.34A / Cos φ = 0.55

137,29 kWh

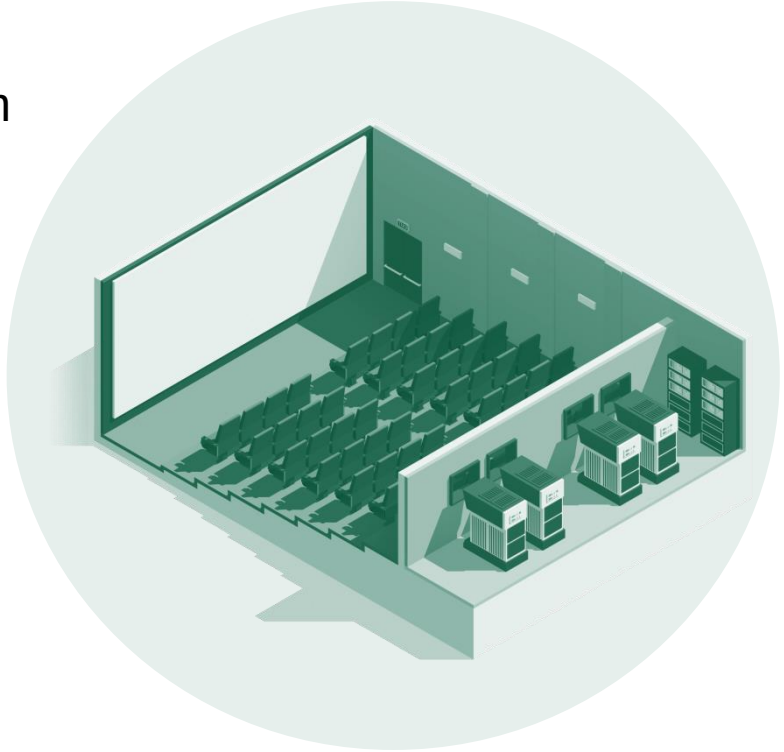
OFF

ON

# Usage case: Movie theaters

The audio system in a cinema viewing room of a multiplex consumes electricity even when no film is being shown and no music is playing.

The customer uses NETIO 4 to disconnect individual parts of the audio system.
When there is no show, there is no need to power the audio system.



**Approximately 38% of electricity is saved.**

# ABOUT NETIO PRODUCTS A.S.

The NETIO products company is a Czech producer of networked power sockets (can be controlled over LAN & WiFi).

Main focus is professionals & business usage (B2B).
A typical user is a SI (System Integrator), uses **NETIO 4x** (NETIO 4 / 4All / 4C) in various industrial projects.

- Network infrastructure
- IoT / Industry 4.0
- Wind power plants, Digital signage
- Audio / Video multimedia, ..

# Main features

*NETIO are the smartest power sockets you have ever seen..*

NETIO
Networked power sockets

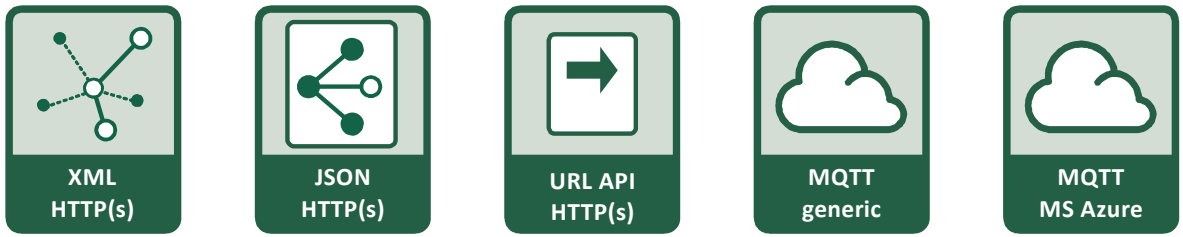
1) **M2M API integration**
   NETIO 4x products support all mainly used **M2M API protocols**.
   This product could be connected to **any software or service** on the market.

2) **EUROPEAN PRODUCT**
   NETIO 4x smart sockets can be really **secure** from LAN side..
   NETIO products is stable **long-term manufacturer from Europe**.

3) **PROGRAMMABLE**
   NETIO 4x products can be **programmed by customer in Lua**.
   NETIO will introduce plenty of Application Notes (**ANxx)** examples..

# Feature 1: 13 various M2M API protocols

- NETIO 4x products can be used most of **M2M API protocols.**
- NETIO is ready to be integrated to industrial projects.
- NETIO can be used with plenty 3rd party **software or services.**



# Feature 2: **EUROPEAN PRODUCT**

1) **We do believe in LAN security**. Security is hidden in 100 details..
2) We follow all certifications for 110/230V devices.
   It's our problem **inside European Union**.

3) We are stable / long-term vision company (stable prices & profit)

4) Robust product in metal housing.
5) Manuals, Support, FW updates, SDK, Application Notes, ..
6) **Backward compatibility**.
   New products generation can be used in one system along with previous generations.

INSPECTION CERTIFICATE

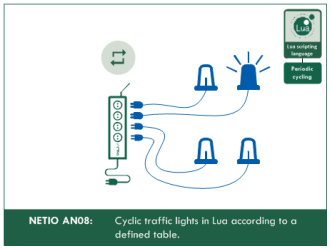
# Feature 3: **Lua PROGRAMMABLE**

1) User can program and run **his own script in the NETIO 4x device**.
   Power sockets 230V with user definable scripts are unique feature on the market.

2) NETIO products is publishing plenty of Application Notes (**ANxx)** examples..

3) Average user don't want to program anything. But want to have this possibility!
   ANxx are easy to use. 90% of users will copy-paste **and use it only**..

4) NETIO device can from the Lua script PING to defined IP address
   and detect if IP based device is still alive or not.
   We have 3 different ANxx just as examples for this..




**5)** **Lua** (programming language) is not for dummies, but it's not a rocket science.
   Your kids are using Lua for the Minecraft user add-ons..

# NETIO 4x products

| | NETIO 4All | NETIO 4 | NETIO 4C |
|---|---|---|---|
| **Network interface** | LAN + WiFi | LAN + WiFi | 2x LAN |
| **WiFi Antenna** | RSMA external (3dBi) | Fixed (2dBi) | - |
| **Power Input** | Europlug (DE + FR) | Europlug (DE + FR) | IEC320 **C13** |
| **Power Output** | 4x power socket (DE + FR) | 4x power socket (DE + FR) | 4x power outlet IEC 320 C14 |
| **Energy metering** | Yes | - | - |
| **Serial port (RS-232)** | - | - | Yes |
| **Bluetooth 4.0 LE** | Yes | - | - |
| **M2M API protocols** | SNMP, HTTP, HTTPs, MQTT, Modbus/TCP, Telnet (SSL), XML, JSON, CGI, SIP | | |
| **Lua scripting** | Yes | Yes | Yes |
| **Mobile App** | Yes | Yes | Yes |

# NETIO COBRA

# How many power socket types?

*We are in Europe now, how many types of the power sockets do you really need in Europe?*

**Plug Type E**

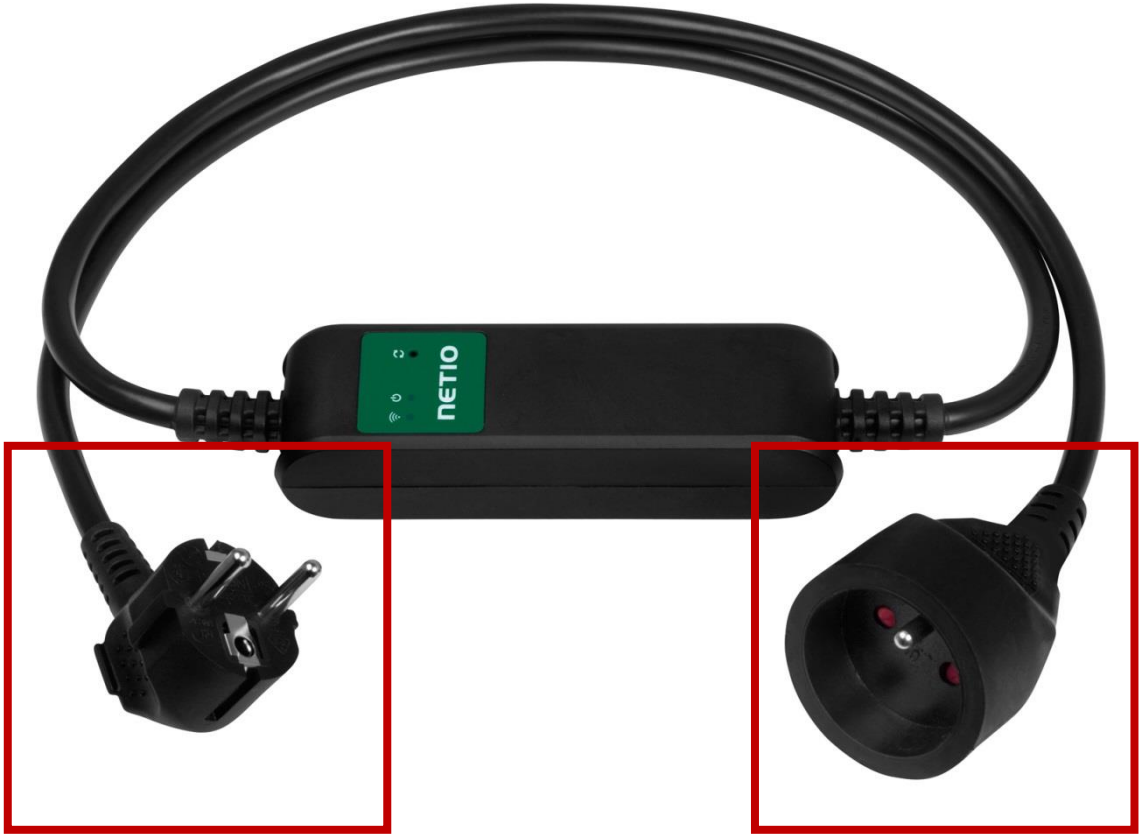
**Schuko**
**Plug Type F**

**Plug Type G**

**Plug Type J**

**Plug Type L**

# NETIO COBRA IQRF: Various power plugs



# NETIO COBRA IQRF: Available power plugs

**CH**
On request

**DE**
Available

**C13/C14**
On request

**FR**
Available

**US**
Project only

**UK**
Project only

# NETIO COBRA: Usage

1) ***Switch** ON/OFF power output*

2) ***Energy metering***
   a) *Current measurement **[A]***
   b) *Load measurement **[W]***
   c) *Energy measurement **[Wh]***
   ***d) PF** (Real Power Factor / **Cos Fi**) measurement*
   e) *Voltage measurement **[V]***
   f) *Frequency measurement **[Hz]***

# NETIO COBRA types

| | NETIO COBRA WiFi (DE) | NETIO COBRA IQRF (DE) |
|---|---|---|
| **Model name** | NETIO Cobra **101F** | NETIO Cobra **901F** |
| **Power sockets** | 1x power plug | 1x power plug |
| **Network** | WiFi | IQRF |
| **Switch ON/OFF** | Yes | Yes |
| **Current measurement** | Yes (V, A, W, kWh, Cos Fi, Hz) | Yes (V, A, W, kWh, Cos Fi, Hz) |
| **Power plug types** | DE, FR, CH, IEC 320 C13/C14 | DE, FR |

# THANK YOU
# FOR YOUR ATTENTION

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