

Smart Plug with **Open REST API**

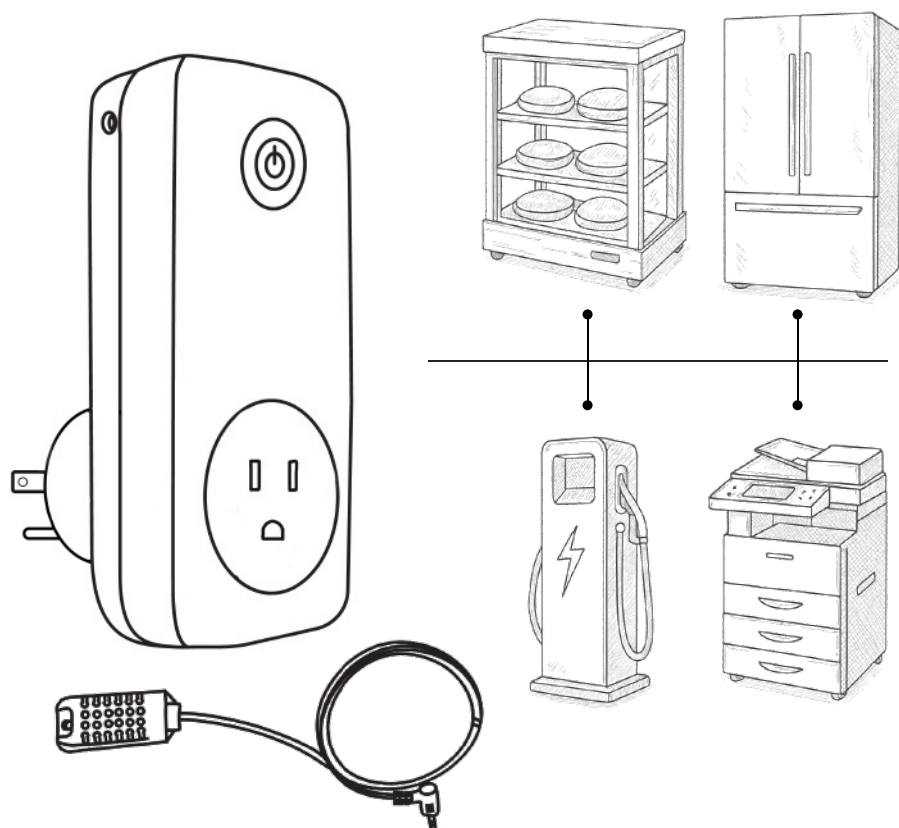
LOCAL CONTROL | FULL TRANSPARENCY | UNLIMITED FLEXIBILITY

Designed for developers, integrators, and smart home enthusiasts, our Smart Plug puts you in full control—without relying on the cloud. Connect via local Wi-Fi and take charge with our open REST API, giving you the freedom to:

-  Turn connected equipment on/off
-  Monitor real-time power consumption
-  Track temperature and humidity

Whether you're building a smart home, automating a greenhouse, or deploying environmental monitoring solutions, this product is engineered for reliability and adaptability.

Choose the developer version for custom API integration, or go plug and play with the Home Assistant/ESPHome firmware edition for instant compatibility with popular smart home platforms.



Applications:

- Smart buildings
- Smart appliances
- Greenhouse automation
- Environmental monitoring
- Energy usage analytics
- Remote control of appliances
- Connected appliances
- Edge computing and AI

Perfect for:

- IoT developers
- System integrators
- Smart home enthusiasts
- Building automation engineers
- Industrial IoT innovators
- AI and ML engineers
- Agritech professionals

Specifications:

WiFi	2.4 GHz 802.11b/g/n
MCU	Espressif ESP32
Mains voltage	90-240V
Max. current	10A-16A depending on region
Temp. sensor	-1 ... 35 ±0.5 °C
Humidity sensor	5 ... 95 ±3.0 %RH
Energy accuracy	±2.4W
Dimensions	53 x 119 x 64 mm
Weight	150g
Compliance	AS/NZS, CE
IP rating	IP20
Communication	HTTP, HTTPS, MQTT, REST
Integrations	Home Assistant, ESPHome

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OPTIONAL ADD-ON FEATURES AVAILABLE

Not included in standard package

+ Custom Cloud Integrations via MQTT

Enable seamless cloud connectivity using MQTT for real-time data transmission to your preferred IoT platform or private cloud infrastructure.

+ Additional Sensors (e.g., CO₂)

Expand functionality with support for extra sensors such as CO₂, enabling more detailed environmental monitoring and control.

+ Edge Computing & AI at the Edge

Run custom logic or AI models directly on the device to enable real-time, offline decision-making and reduce cloud dependency.

+ BLE Gateway Functionality

Use the device as a Bluetooth Low Energy (BLE) gateway to connect and relay data from nearby BLE sensors to your local network or cloud.

+ Home Assistant / ESPHome Integration

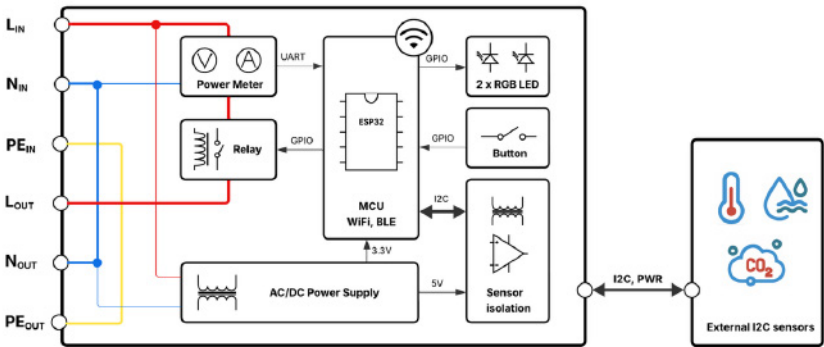
Enjoy seamless plug-and-play compatibility with Home Assistant and ESPHome for easy smart home automation and integration.



**Optional features are available upon request and might incur additional charges. Contact us for more information.*



SYSTEM ARCHITECTURE



REST API

Command	Type	Short description
/ping	GET	Checks if the device is alive and responsive
/getTemperature	GET	Returns device and ambient temperatures
/getRelayStatus	GET	Returns the current status of the relay (on or off)
/getSystemInfo	GET	Returns all settings and vital details about Rowi
/getPowerMeterData	GET	Returns info related to power consumption
/setRelayStatus	POST	Switch on/off relay
/setPermanentRelayStatus	POST	Switch on/off relay and store status in flash memory
/updateFirmwareAndReset	POST	Checks for and installs upgrades
/reboot	POST	Reboot Rowi

COMPLIANCE

EMC

EN 55032
EN IEC 61000-3-2
EN 61000-3-3
EN 55035

RADIO

ETSI EN 301 489-1 V2.2.3
ETSI EN 301 489-17 V3.3.1
ETSI EN 300 328 V2.2.2
EN 50665
EN IEC 62311

SAFETY

EN IEC 62386-1
AS/NZS 62386-1
DIN VDE 0620-2-1
DIN VDE 0620-1
AS/NZS 3112



REST API EXAMPLE

```
# Turn ON
curl -H "Content-Type: application/json" \
  -X POST http://192.168.0.164/setRelayStatus \
  -d '{"data": "on"}'

# Turn OFF
curl -H "Content-Type: application/json" \
  -X POST http://192.168.0.164/setRelayStatus \
  -d '{"data": "off"}'
```