

# LoRaWAN™ Remote Power Switch

# Network Infrastructure

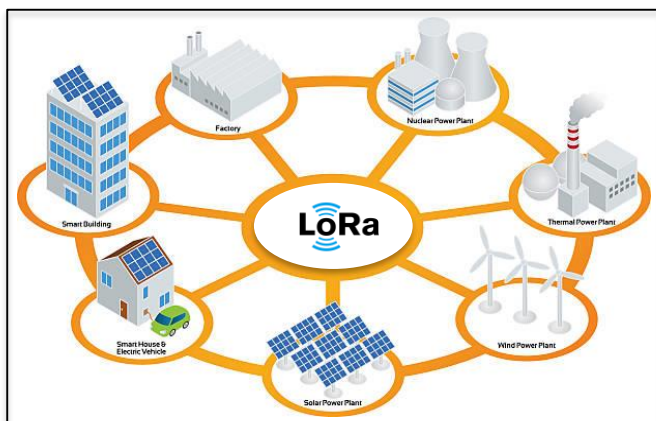
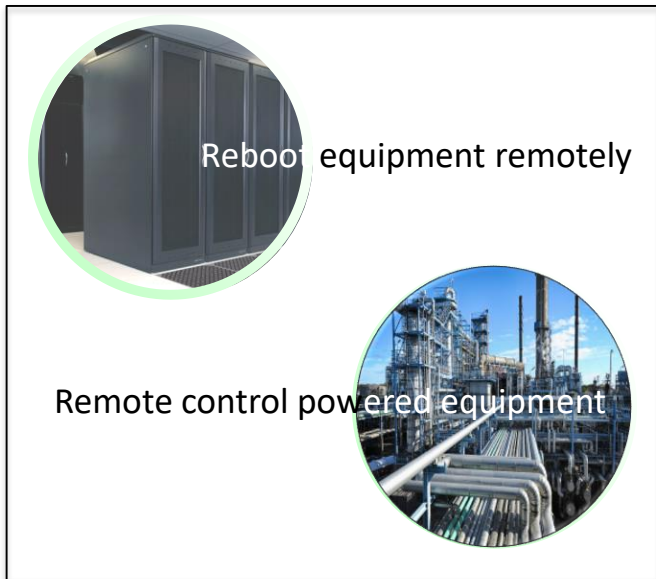
Ordering info: RE.81.0100 (Europe)  
Ordering info: RE.81.0110 (UK)

Control devices remotely from anywhere,  
anywhere any anytime over LoRaWAN™



The LoRaWAN™ Remote Power Switch is a smart LoRa® device for remotely controlling industrial and home appliances. The Remote Power Switch supports universal IEC320-C14 type input and IEC320-C13 output connectors to easily fit between the power cord and the device under control.

The Remote Power Switch can be used to remotely control the power of external devices or appliances. Appliances include among others remote control of general devices, lighting, irrigation systems, pumps, remote servers, smart cabinets, repeater stations, towers, enabling and disabling security systems, access control of gates and doors. Communication to the Remote Power Switch is done using the integrated LoRaWAN module. All you need to do is: configure the Remote Power Switch via the integrated Micro-USB port, connect to your LoRaWAN network, connect the Remote Power Switch to your power outlet and connect your appliances to the Remote Power Switch.



Use Cases	
Building Automation	
Agriculture	
Industrial IoT	
Water Management	
Smart City	
Facility Management	
Telecom	

Highlights	
<b>Actuator:</b>	Switchable remote power outlet incl. IEC-C13 & USB configuration cable
<b>Input voltage:</b>	100-250V AC, 50-60Hz
<b>Connectors:</b>	1x IEC-C14 input, 1x IEC-C13 output
<b>Current:</b>	max. 6A outlet
<b>Configuration:</b>	via Micro-USB 2.0
<b>Classes:</b>	A, B, C
<b>Output:</b>	15mW output @ 868MHz
<b>LEDs:</b>	1x power/LoRaWAN status (blue) 1x contact On/Off (green)
<b>Activation:</b>	Personalization (ABP) or Over-The-Air Activation (OTAA)
<b>Size in mm:</b>	105(L) x 57,3(W) x 38(H)
<b>Size in inches:</b>	4.134(L) x 2,256(W) x 1,495(H)
<b>Weight:</b>	200 gram (7 ounces)
<b>Temperature:</b>	-20°C to +70°C (-4°F – 158°F)
<b>Humidity:</b>	Non-condensing

LoRaWAN Remote Power Switch:	Features
Real Time Communication:	Yes, Class C
Compatible with Class A, B, C	Yes, 868 MHz
Activation methods:	ABP, OTAA
Support for configurable default power-on/off/last state:	Yes
Instantaneous reading of status:	Yes, Class C
Firmware updates and upgrades via Micro USB port:	Yes
Status LED's for signaling on device:	LoRaWAN & Relay On/Off
Power supply from AC	Yes
Wireless range indoor:	Approx. 2.000 meters
Environmental Usage:	Indoor, non-condensing
Tested with the LoRaWAN™ networks of:	Actility, Digimondo, SmartMakers, TTI, TTN and many more

LoRaWAN Remote Power Switch:	Specifications
CPU:	ARM STM32L152RC
EEProm size:	8 KB
Flash size:	256 KB
Network Encryption:	AES 128 bit
Chipset:	Semtech SX1276
Antenna for 868 MHz:	Built-In
Working temperature range (°C):	- 20° + 70°
Working temperature range (°F)	-4° + 158°
Dimensions (mm):	105(L) x 57,3(W) x 38(H)
Dimensions (inches):	4.134(L) x 2,256(W) x 1,495(H)
Power Consumption:	150mW
Mains Power Switching:	230 V AC - max. 6 Amp
Power Cable:	2 meter C13-C14
Micro USB Cable:	included
Classes:	A, B, C
Documentation*:	Online Config Guide
Software*:	Online downloadable
Regulatory	FCC, CE
Warranty:	2 years

\*for software, documentation and more visit: <https://www.rfi-engineering.com/index.php/remote-power-switch-3/>

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