LoRa Remote Power Switch

Network Infrastructure

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

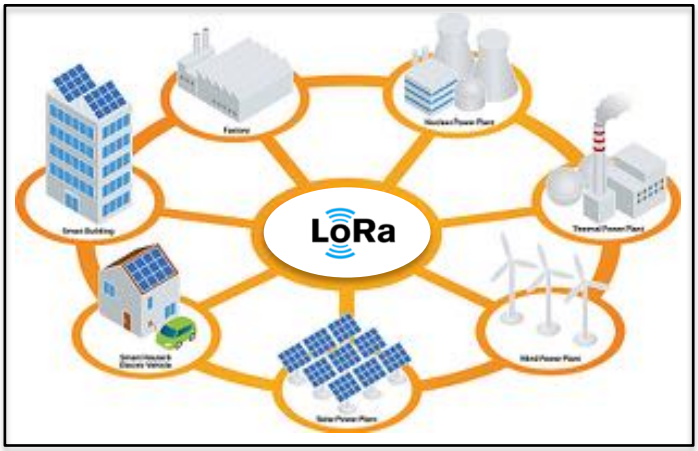
Control devices remotely from anyplace, anywhere any anytime over LoRaWAN™

The LoRa Remote Power Switch is a smart LoRaWAN™ device for remotely controlling industrial and home appliances. The LoRa 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 a LoRaWAN network, connect the Remote Power Switch to your power outlet and connect your appliances to the Remote Power Switch.

Reboot equipment remotely

Remote control powered equipment



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

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

v1.6 November 19, 2019

Global Sales information RFI Engineering B.V.: +31 36 750 8268 or sales@rfi-engineering.com.
Markerkant 13-76 - 1314 AN Almere - The Netherlands

Features & Specifications

LoRa Remote Power Switch:	Features
Real Time Communication:	Yes, Class C
Compatible with LoRa® classes 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
LoRaWAN® version:	1.03
Tested with the LoRaWAN® networks of: DIGITA, Levikom, Netzikon, sens, kpn, Objenious, proximus, swisscom. Device Qualification Program Pending	Actility, Digimondo, Loriot, SmartMakers, TTI, TTN and many more

LoRa 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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