LTE-M Remote Power Switch

The Remote Switching Company

Controls external devices remotely from anyplace, anywhere and anytime

Model: RE.11.LTEG | Region: Global

The LTE-M Remote Power Switch uses a LTE-M network to remotely control the power to an external device, such as network routers. The unit supports universal IEC320-C14 type input and IEC320-C13 output connectors to easily fit between the power cord and the external device under control. The LTE-M Remote Power Switch has a contact relay that can handle a maximum switched current of 6A.

The LTE-M Remote Power Switch is very easy to use. Due to its fast communication, stability, reliability, and safety, it is an ideal choice for industrial control equipment and/or applications with high communication requirement.

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Applications

Disaster Recovery
Rebooting critical infrastructure components

Industrial Control
Valve control, pump station control, unattended industrial control system

Intelligent Agriculture
Controlling door curtain motors and air blowers

Breeding & Farming
Controlling ventilator, lightning, water supply and feeding systems

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SPECIFICATION

AC Input/Output	
Voltage	100-250 VAC -10%, +6%
Line Frequency	47 - 63 Hz Current 0.01A max. at 90 VAC input
Maximum switching current	6A
Inlet type	IEC320-C14
Outlet type	IEC320-C13
Mechanical	
Case Dimensions	105.0L x 57.3W x 38.0H (mm) 4.134L x 2.256W x 1.495H (inches)
Case Material	Black, Flame retardant ABS plastic UL94V-0
Weight	200 grams 7 Ounces

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

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Ordering information: www.rfi-engineering.com/purchase

Environmental

Operating Temperature	0º to 40ºC with no derating
Storage Temperature	-30º to +85ºC
Relative Humidity	5% to 95% non-condensing
Altitude	0-10,000 feet
Cooling	Convectional - non vented case
EMI	Complies with EMC Directives
CE	CE Compliant
MTBF	100,000 Calculated Hours

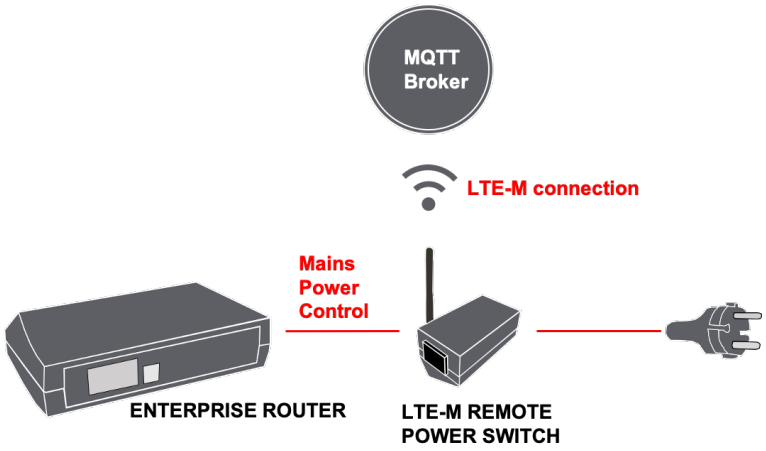
Safety Approvals

Agency Listings	cULus: UL/CSA60950; TUV: EN60950; CE: LVD, EMCD

Main CPU Board

CPU	ARM STM32L152RC
EEPROM size	8 KB
Flash size	256 KB
Operating System	RLTEOS-1.0

MQTT connection through NAT



Send and Receive Messages to your LTE-M Remote Power Switch using MQTT

The unit contains an MQTT client that connects to an MQTT broker over the LTE-M network. In many common use cases, the MQTT client is located behind a router that uses network address translation (NAT) to translate from a public operator's private network address to a public facing address. The MQTT client initiates the connection by sending a CONNECT message to the broker. Because the broker has a public address and keeps the connection open to allow bidirectional sending and receiving of messages (after the initial CONNECT), there is no problem to connect with clients that are located behind a NAT.

Communication Interfaces

USB configuration interface	Micro USB connector, emulated serial port (compatible with Windows, MacOS and Linux)
LED Indicator	Blue, flashing when CPU operates normally Green, on when relay is on

LTE-M, NB-IoT & 2G CELLULAR WAN

Global model (RE.11.LTEG)

Cat M1/NB1 deployed bands: 2, 3, 4, 5, 8, 12, 13, 20, 26*, 28*; EGPRS quad-band, 850/900/1800/1900 MHz (* = roaming bands)

*for software, documentation and more visit:
https://www.rfi-engineering.com/index.php/ltem-rps

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