



## Extreme range LoRaWAN® Smart-Switch

- ⊕ LoRaWAN time-controlled power switch for AC appliances
- ⊕ Remote control of any industrial or home devices
- ⊕ Battery operated with ultra-low consumption
- ⊕ Time-controlled Start/Stop schedules
- ⊕ Smart-operations: ON/OFF on DI status changes
- ⊕ Fraud resistant with tamper
- ⊕ License free operation on EU868, US915 and AS923
- ⊕ IoT ready (compliant with all Internet of Things platforms)
- ⊕ Exceptional signal penetration through obstacles
- ⊕ Provided with free of charge Android and iOS App
- ⊕ Available in LoRaWAN Class A (LITE) and Class C (FULL)



The **STREGA time-controlled Smart-Switch** is a wireless switching device with embedded **LoRaWAN®** technology. The Smart-Emitter triggers ON or OFF operations with its embedded bistable relay in order to remotely control any AC devices. With its ultra-low-power consumption, the device is working on external power (Class C) or on batteries during 7+ years (Class A) and communicates through extreme long distances with exceptional obstacles penetration. The embedded clock performs automatic ON/OFF operation without requiring any communication. Smart ON/OFF can be triggered on DI status changes.



Operate your industrial or home AC appliance securely from your smartphone or tablet

- ⊕ **Extreme range:** ultra-long range propagation of the signal with deep obstacles penetration (15km+ / 10+mi. LOS)
- ⊕ **Automatic "schedulers":** programmable START/STOP sequences
- ⊕ **Smart operations:** pulse counting up to 10 Hz, ON/OFF on IO change, etc.
- ⊕ **Embedded 250VAC/5A bistable relay**
- ⊕ **Industrial grade:** strong electromagnetic noise immunity and high temperature operation up to 70°C/160°F - outdoor use IP67
- ⊕ **Low consumption:** ultra-low power with 7+ years autonomy or limitless if powered externally
- ⊕ **Tampering:** any misuse is immediately reported
- ⊕ **Mobile Control:** operate your appliance, gate, lighting or any industrial device directly from your smartphone or tablet

# Specifications

Features	Specifications
Product ID	Time-controlled wireless smart power switch
Radio technology	LPWAN LoRaWAN 1.0.2 Class A (LITE) – star-of-stars topology – or Class C (FULL edition)
Working t°	-20°C...+70°C / -4°F...160°F
Embedded switching relay	Max. 250 VAC - 5A bistable - NO+NF (2 alternate power lines)
Antenna	embedded
Manual override	Press buttons for local ON/OFF or by approaching a magnet (remotely enabled)
Extra sensors	Temperature/Hygrometry, 2 x Digital Inputs, 1 x 0-10VDC Analog
Duty Cycle	100% continuous rating
Tamper	Enclosure opening is immediately reported in UPLINK
Humidity	Supplied with conformal coating or optional epoxy potting
IP protection	IP67
Power supply Class A	One or two Lithium batteries type-D 3.0VDC or 3.6VDC
Power supply Class C	External from 9 to 60 VDC One battery can be used as backup in case of power failure
Reference	SEZ-XXX (XXX for regional frequency EU868, US915, AS923 Z for LITE or FULL)

Features	Specifications
Automatic Operations	Programmable scheduling, automatic ON/OFF on DI changes
Range	15+km LOS (line of sight) - 2+ km in urban environment
Security	128-bit AES encryption key
Max. Smart-Switches per concentrator	128-1000 depending on duty cycles
Max. Smart-Switches per project	not limited (each Smart-Switch has a unique ID key)
Frequency	License free EU868, US915, AS923
Cable health monitoring	Detection of faulty relay or wire disconnection
Maximum output power	+14dBm (+20dBm for US915)
Data rate	290 bps – 50 Kbps
Data Read	ON/OFF status – battery level – 2x DI, 0-10VDC measurement, counter value, enclosure tampering, alarm, temperature, hygrometry, RSSI, etc.
Data Write	ON/OFF command – transmit frequency – schedulers - time sync, counter set value, etc.
External cabling	Via sealing gland
Mobile App	Free of charge mobile Application for Android and iOS
Public Network and LNS interoperability	Orange, Objenious, Lorient, ChirpStack, Kerlink-Wanesty, Comcast, Meshed, TTN, Helium, NNNCo, Helium, Actility ThingPark, Senet, Digita, ...

\* battery life depends on Rx/Tx frequency and ON/OFF frequency

