Data Sheet – XSwitch Gateway

2G/3G/4G

Bluetooth Long Range

Networks
Bluetooth Long Range
GSM 4G/3G/2G
Wi-Fi 802.11 a/b/g/n 2.4GHz
Ethernet

Coverage
up to 200m

Power supply
230V

XSwitch gateway makes it possible to extend the safety of workers equipped with XSole PTI insoles, where the GSM network is unavailable (dead zones).

How it works

Communication with XSole PTI insole: dead zones are covered by a Bluetooth Long Range network generated by the XSwitch. This network covers up to 200 meters.

Communication with TRAXxs servers: the GSM antenna of the XSwitch must be placed where the GSM network (2G/3G/4G) is available. The XSwitch can use a Wi-Fi or Ethernet network as an alternative to GSM.

Once both sides of the network are installed, XSwitch works as a bidirectional gateway between XSole PTI insoles and TRAXxs servers in the Cloud.

Roaming lone workers (Mobile XSwitch, under development)

XSwitch gateway includes a GPS antenna that makes it geolocate XSole PTI insoles. This functionality may be useful for roaming lone workers operating in a dead zone (e.g., underground / elevator shaft).

Installation

XSwitch gateway is simple to use: after plugging the provided antennas you just have to connect it to the power grid.

From the smartphone app XS Manager, the worker and the safety manager can verify:

1. that the XSwitch properly communicates with the TRAXxs servers
2. that the XSole PTI insoles are properly relayed by the XSwitch

Technical features

Outdoor compatible (IP68)	✓
GSM 4G/3G/2G *LTE Cat 4 EU with 3G/2G backup*	✓
GNSS	✓
Wi-Fi (*IEEE 802.11 a/b/g/n*)	✓
Bluetooth Long Range	✓
Ethernet	✓
IP68 mains socket	✓
Product reference	XSW_001

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S.A.S. au capital de 185 959 € - SIRET 794 019 786 00035 - RCS Grasse - TVA FR09794019786
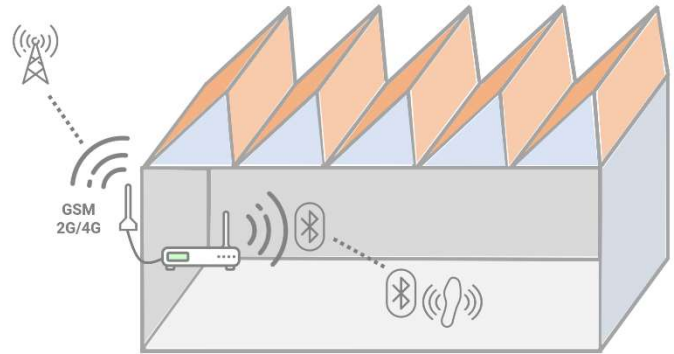
Installation examples

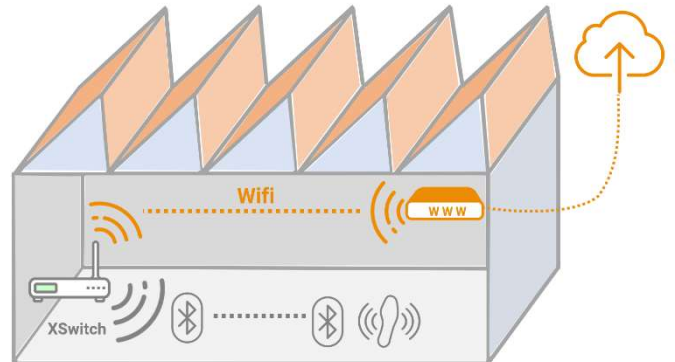## GSM/GPS roaming installation (Mobile XSwitch under development)

In case of outdoor roaming work, the XSwitch is localized via its GPS antenna.
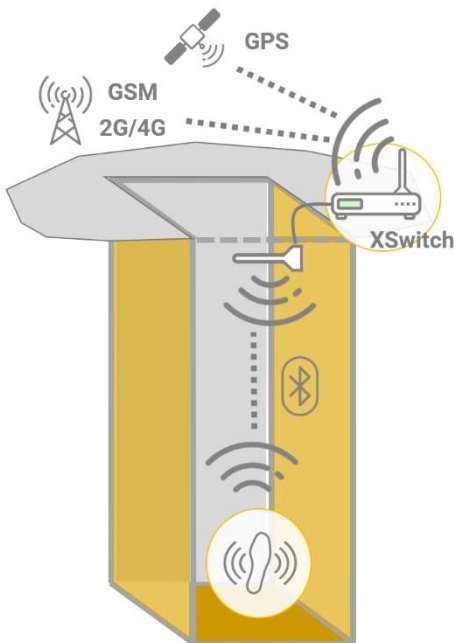
GSM fixed installation

Wi-Fi fixed installation

Mesh relaying between XSwitch

Multiple XSwitch gateways can be chained to extend the coverage.