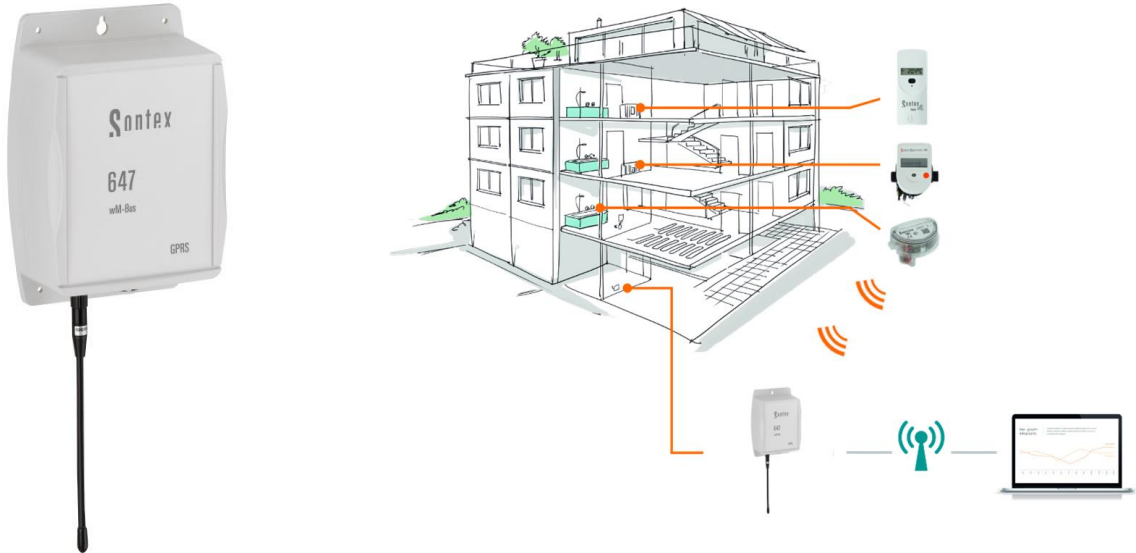


Radio Concentrator Supercom 647



Application

The Supercom 647 is a radio concentrator designed to remotely read out wM-Bus and OMS devices (868 MHz).

Installed permanently in the building, the Supercom 647 receives, stores, and uploads the received radio data to a FTP server via an integrated GSM / UMTS modem.

Features

- 868 MHz transceiver.
- Autonomous remote readout system for wM-Bus and OMS devices.
- Operating modes T1, T2, and C1 according to EN 13757-4.
- FTP upload via the integrated GSM / UMTS modem.
- Power supply with on-site replaceable lithium battery pack.
- Data backup in case of power supply breakdown.
- Easy configuration thanks to its MBWGPRS software.
- Configuration and readout software included (English, French, and German).
- Software for interpretation of uploaded FTP files included.
- Protection class IP 65.

Types

Power supply		Modem	Configuration interface
Battery	Mains	GSM / UMTS	USB

Function

The radio concentrator Supercom 647 is a radio transceiver for consumption meters (electricity, gas, water, and heat) operating in modes T1, T2 and C1, according to EN13757-4.

The Supercom 647 receives the radio telegrams from the consumption meters, 7 days a week, 365 days a year, and stores them in its internal non-volatile memory of 16 MB (up to 58'000 telegrams).

According to the configuration, the stored radio telegrams are sent via an internet connection to a FTP server.

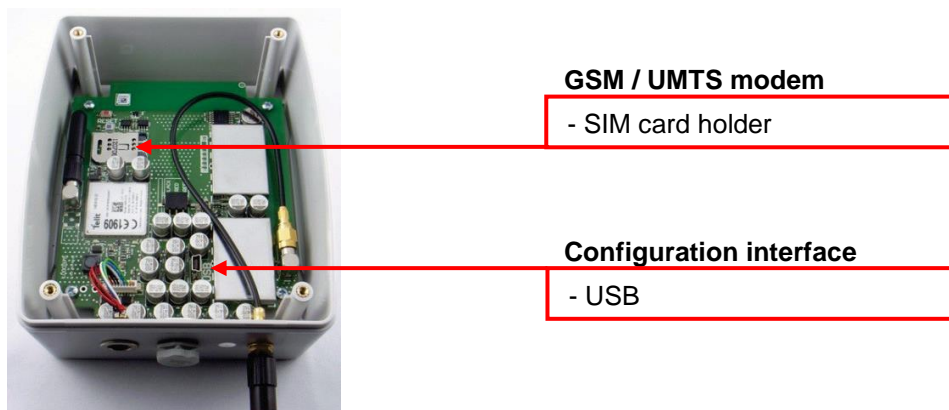
Configuration

Before or during commissioning, the Supercom 647 has to be configured using its USB interface and the MBWGPRS software, which can be downloaded from <https://www.sontex.ch/en/downloads/>.

All relevant parameters like SIM card parameters, FTP server and radio reception parameters have to be set. In addition, the following parameters are available:

- Password protection
- Up to 6 global keys (AES-128)
- List of meter specific radio keys (AES-128)
- FTP file deciphering key
- Device state (time, temperature, housing, device, battery, and report)
- Device meter list
- Received meter list (meters, telgr. Mode T, telgr. Mode C, bit errors, and CRC errors)
- GSM / UMTS network information and signal strength
- General settings (device name, device text, password, set time, etc.)
- FTP server configuration (SIM-PIN, APN, user, password, FTP server, etc.)
- Radio reading and FTP upload settings
- Authorized / blocked manufacturers and device types
- Remote configuration
- Etc.

Connectivity



Technical specifications

Operating temperature	-20 to 60 °C
Storage temperature	-30 to 70 °C (dry environment)
Dimensions	195 x 130 x 46 mm (mains type) 195 x 130 x 170 mm (battery type)
Weight	640 or 830 g (depending on the type)
Protection class	IP 65
Mounting	Wall mounting using up to 6 screws

Standards

Directives / norms	EN 301489-1 V1.9.2 IEC 60950-1:2005 + AMD1:2009 + AMD2:2013 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
CE conformity	EN 60721-3-2 class 2M2 / class 2K2 EN 60721-3-4 class 4M2 / class 4K1 According to 2014/53/EU (RED) https://www.sontex.ch/en/downloads/

Interfaces

GSM operating modes Configuration	GPRS, EDGE, UMTS / HSPA+ USB 2.0
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Radio communication

Communication	Unidirectional
Frequency	868.95 MHz
Operating modes	T1, T2, C1 according to EN13757-4
Radio protocol	wM-Bus / OMS
Reception time	Configurable from 1 min to 24 h

Power supply

Mains	110 - 230 VAC, 50 - 60 Hz
Battery	Lithium battery pack
Note	The lifetime of the battery pack depends on the number of meters present on site, the configured reception time, the number of FTP uploads, the quality of the network and the operating temperature.

Technical support

For technical support contact your local Sontex agent or Sontex SA directly.

Sontex hotline

support@sontex.ch, +41 32 488 30 04

Specifications are subject to change without notice.