

# SUPERLINK C GATEWAY

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slim meten is eerlijk verdelen

## Gateway

**Ista Technolux Nederland B.V.**

Hart van Brabantlaan 12-14  
5038 JL Tilburg

**T:** 010 - 2200 340

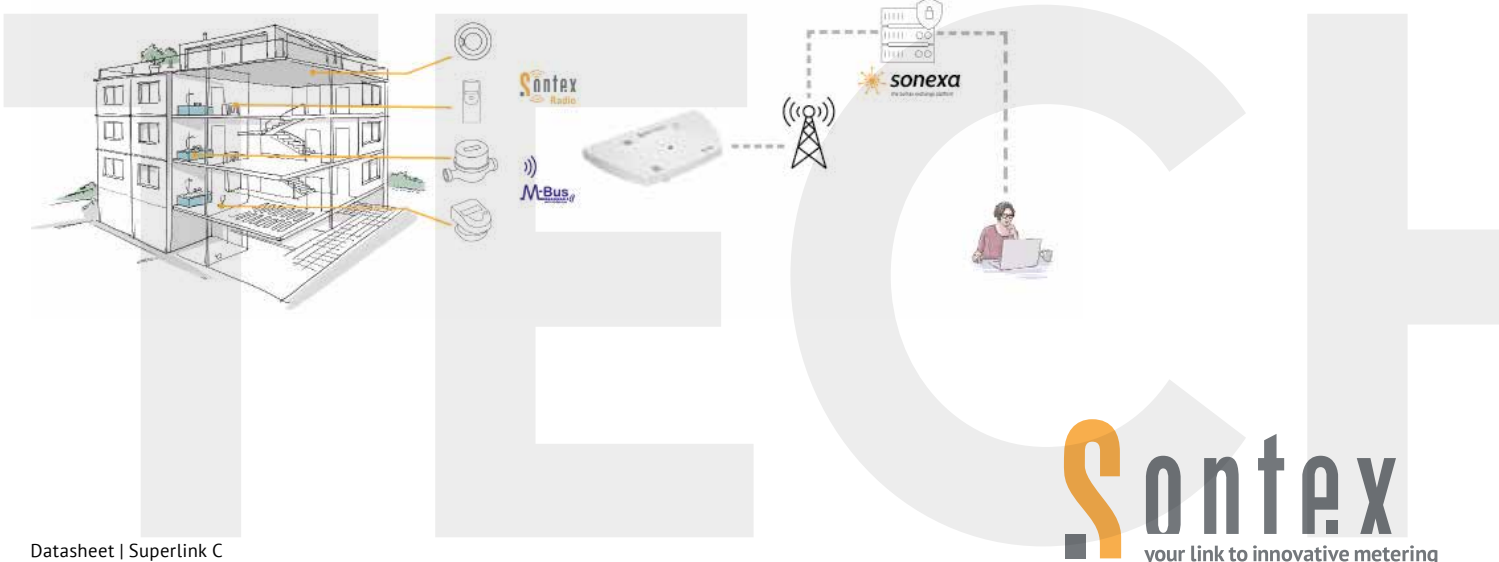
**E:** info@technolux.nl

**I:** technolux.nl



## Application

The Superlink C is a gateway that, in conjunction with the Sonexa platform, enables flexible readouts to ensure EED compliance. Consumption data from wM-Bus / OMS (868 MHz unidirectional) and SONTEX Radio (433 MHz bidirectional) enabled devices are collected by Superlink C and immediately and securely forwarded to Sonexa. There, the data are ready for processing. Depending on the power supply of the gateway, the consumption data can be received at selectable time intervals and can be used for consumption calculation or statistical processing.



## Features

- Remote reading system for devices equipped with the SONTEX or wM-Bus / OMS radio.
- Measuring data are forwarded encrypted via NB-IoT to the Sonexa Platform.
- Remote control and parameterization via Sonexa.
- Pre-installed SIM card, if selected, significantly speeds up commissioning - Superlink C is always connected to the best available network.
- Real-time, automatic firmware and software updates.
- USB interface for on site parametrization.
- EED-compliant and flexible meter readings.

## Mains Power, and Readout Intervals

The Superlink C Gateway is available in several variants to meet customer needs: the battery variants are suitable for flexible and location-independent applications.

For projects with higher readout interval, the variant with 230 VAC power supply is available, which is particularly suitable for monitoring and alarming.

Power supply	Battery life time (guide value)	Readout guide values for Sontex or OMS radio
1x D-Cell	6 Years*	Sontex (up to 200 devices): 1x monthly or OMS: 20' - 2x monthly
3x D-Cell 60 Ah	> 6 Years*	Sontex (up to 250 devices): 2x monthly or OMS: 20' - 2x monthly
6x D- Cell 120 Ah	> 6 Years*	Sontex (up to 250 devices): 4x monthly or OMS: 12' - 1x daily
230 VAC		Sontex (up to 500 devices): max 1 readout per week OMS: several time a day

\* Operating time when using NB-IoT.

Due to the higher power consumption, the operating time is significantly lower when using LTE-M (CAT-M).

## Readout and parametrization

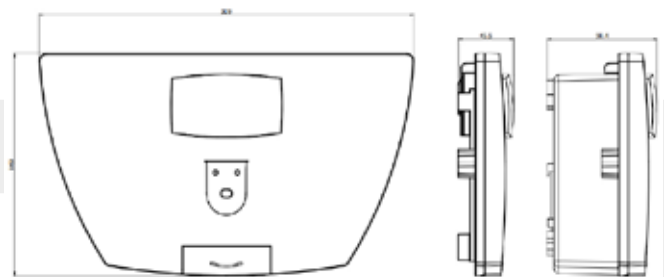
The gateway communicates bidirectionally with the Sonexa Platform, which assigns the tasks to it and receives the readout data. The parameters of the Superlink C SIM card can be parameterized via a USB interface. Firmware updates are possible via the Sonexa Platform.

The data from end devices of different manufacturers and technologies (Sontex, wM-Bus / OMS radio and LoRaWAN) are collected and forwarded to (s)FTP servers or can be queried via API. Customer systems can be connected to Sonexa via API. Using Sonexa, devices with bidirectional Sontex Radio and LoRaWAN can be remotely parameterized. Access to Sonexa is possible via the usual browsers. There is no need to install and manage a separate software.

## Radio Communication

- SONTEX Radio
  - Frequency: 433.82 MHz
  - Communication: Bidirectional
  - Protocol: Radian 0
  - Transmission interval: on ask
  - Power: 10 mW (10 dBm)
- wM-Bus / OMS
  - Frequency: 868.95 MHz
  - Communication: Receiver category 2, according to EN 300-220-1, -2
  - Protocol: Wireless M-Bus according EN 13757-4
- NB-IoT, LTE-M (CAT-M)
  - Frequency : B8: 880 – 915 MHz Uplink,  
925 – 960 Downlink, 25 MHz Bandwidth  
B20: 832 – 862 MHz Uplink,  
791 – 821 Downlink, 30 MHz Bandwidth
  - Communication: Bidirectional
  - Protocol: HD-FDD

## Dimensions



~310 x ~170 x 46 or 91 mm

## Sonexa Platform

Sonexa is a web application and the interface to end devices of different manufacturers and technologies. All previous features of the Exchange Platform (AES key management) have been incorporated into the Sonexa Platform.

The biggest advantage of the Sonexa Platform is the remote management of end devices and data, as well as gateways (Lo-RaWAN, Superlink C, Supercom 646).

## Technical Data

<b>General</b>	<ul style="list-style-type: none"> <li>■ Weight (netto)</li> </ul>	0.555 kg (1x D-Cell Battery version) 1.040 kg (Battery pack 60 Ah version) 1.360 kg (Battery pack 120 Ah version) 0.500 kg (Mains power 230 VAC version)
	<ul style="list-style-type: none"> <li>■ Cable entries</li> <li>■ Interface connections</li> </ul>	Through 2 openings in the bottom of the housing Access protected by seal
<b>Mounting</b>	<ul style="list-style-type: none"> <li>■ Wall mounting</li> </ul>	With 4 screw holes in the bottom of the housing
<b>Protection Class</b>	<ul style="list-style-type: none"> <li>■ Housing with the exception of the cable entries</li> </ul>	IP40
<b>Fire protection</b>	<ul style="list-style-type: none"> <li>■ Housing</li> </ul>	Acc. UL94 V2
<b>Temperature</b>	<ul style="list-style-type: none"> <li>■ Operation</li> <li>■ Storage</li> </ul>	5°C to 55°C -10°C to 60°C (dry environment)
<b>Interface</b>	<ul style="list-style-type: none"> <li>■ USB</li> <li>■ NB-IoT, LTE-M</li> </ul>	Standard Standard
<b>Mains power</b>	<ul style="list-style-type: none"> <li>■ Mains Power Module</li> </ul>	110-240 VAC, 50/60 Hz, 0.11 A, Grounding according IEC 60417-6092 + Backup: 3.6 V Format 1/2AA
	<ul style="list-style-type: none"> <li>■ Battery</li> </ul>	1x 3,6V Lithium Thionyl Chlorid (Li-SOCI <sub>2</sub> ) + Backup: 3.6 V Format 1/2AA
	<ul style="list-style-type: none"> <li>■ Battery pack 60 Ah</li> </ul>	3x 3,6V Lithium Thionyl Chlorid (Li-SOCI <sub>2</sub> ) + Backup: 3.6 V Format 1/2AA
	<ul style="list-style-type: none"> <li>■ Battery pack 120 Ah</li> </ul>	6x 3,6V Lithium Thionyl Chlorid (Li-SOCI <sub>2</sub> ) + Backup: 3.6 V Format 1/2AA
<b>Power consumption / year 230 VAC version</b>	<ul style="list-style-type: none"> <li>■ ~5 KWh</li> </ul>	At 8 hours readout / week