

Superlink C

Instructions for use



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1. Identification

1.1. Document

Type: Language:	Instruct EN	ions for use	
Revision	Date	Author	Description
22/10	14.10.2022	RédaTech	First edition.
23/01	19.01.2023	RédaTech	New electronic board and UKCA marking.

Table 1: Revision

1.2. Equipment

Name:	Superlink C
Туре:	Gateway that enables flexible readouts of OMS and Sontex radio device consumption data in conjunction with the Sonexa Platform, while ensuring EED compliance.

1.3. Manufacturer

Sontex SA Rue de la gare 27 CH-2605 Sonceboz Switzerland

Phone:	+41 32 488 30 00
E-mail:	sontex@sontex.ch
Internet:	www.sontex.ch

1.4. Support

Phone:	+41 32 488 30 04
E-mail:	support@sontex.ch
Internet:	support.sontex.ch

1.5. Legal Provisions

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The original version of the document was written in English. In case of doubt, the English version is authoritative.

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2. General

2.1. General information

This document was drawn up based on the information available at the time of publication. The original version was drawn up in English.

The information contained in this document is the property of Sontex. It has been set out for internal use by the end customer, to the exclusion of any other usage.

2.2. Compliance with standards and directives

The CE/EA marking indicates that this product meets the requirements of the European directives and UK Conformity Assessment in terms of health, safety, environmental and user protection.

It meets the following directives:

- EN 62368
- RED 2014/53/EU

2.3. Aim of device documentation

This manual provides all the information required for the correct use of the equipment including: product identification, safety, installation, commissioning, troubleshooting, maintenance and disposal.

2.3.1. Scope

This documentation refers to the Sontex Superlink C.

2.3.2. Audience

This document is intended for system operators and installers of the Superlink C.

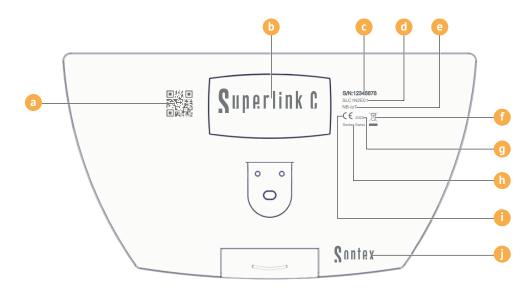
2.3.3. Accessibility of the Document

The system operator must ensure that this document is accessible to the responsible personnel at all times. If the original document is lost, an up-to-date version can be down-loaded from our extranet (*https://extranet.sontex.ch/index/*).

2.3.4. Further Information

Links to further information can be found at *www.sontex.ch*.

2.4. Equipment identification



QR code (URL + Part nb + Serial nb + Access code)	b Product name
c Serial number	d Part number
e IoT identification	① Disposal instruction [▶ 9]
g Production year	h Manufacturer [> 5]
Conformity marking [> 7]) Manufacturer or customer logo

2.5. Procedure for technical support

Procedure to follow for any technical support request:

- 1. Collect the required information for a technical assistance request.
 - → [Equipment identification ▶ 8].
 - → Description of the device problem.
- 2. Please refer to the [Troubleshooting > 49].
- 3. If the problem persists contact your supplier.

2.6. Exchange and Return

In the event of repair, factory calibration, incorrect delivery or order, the Superlink C must be returned. As an ISO-certified company, Sontex is required by law to handle all returned products in a specific manner.

To ensure a safe, professional and fast return of your device:

- **1.** Refer to the Sontex web-site for procedures and conditions.
- 2. Use our Return of goods form.
 - https://sontex.ch/wp-content/uploads/2019/10/sontex-product-return-form-en.pdf

2.7. Disposal

To preserve and protect the environment and reduce waste of natural resources and pollution, the European Commission has adopted a directive whereby electrical and electronic equipment is taken back by the manufacturer for proper disposal or recycling

If you carry out the disposal, the Superlink C must be disposed of under the applicable local environmental regulations. Find out about recycling opportunities in your region

This symbol indicates that electrical and electronic equipment must be disposed of separately. The following applies to consumers in European countries:

- This product must be disposed of separately at a suitable collection point. Do not dispose of it with your household waste!
- Through separate disposal and recycling, natural raw materials can be preserved and the harmful consequences for human health and the environment caused by incorrect disposal can be prevented.
- Further information can be obtained from your specialist dealer or from the authorities or companies responsible for waste disposal.

2.8. Warranty

Please contact your local Sontex representative for warranty information.

2.9. Illustrations

Depending on the configuration of your Superlink C , it can be mounted with a battery, battery pack or 230 V power supply. The 230 V power supply is used to illustrate this document, however, when necessary, the other configurations are illustrated.



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3. Safety

3.1. Introduction



The user must have read and understood all the instructions in the Instructions for use before carrying out any actions or operations on the Superlink C .



Sontex accepts no liability if these instructions have not been observed.

3.1.1. Principle



A DANGER

Failure to observe these safety instructions Risk of accidents, even death

Technical using the Superlink C must read and strictly follow these instructions.



For more information, contact the manufacturer or your local representative.

These instructions are also applicable to the options, components, installations, devices and systems relating to the equipment.

3.1.2. Importance of the safety instructions

All the safety and protection instructions in this manual must be observed to prevent reversible or irreversible personal injury, material damage or pollution of the environment. Furthermore, the legal regulations, the accident prevention and environmental protection measures, and the recognized technical regulations for appropriate and safe working procedures that are in force in the country and place of use of the machine must be observed.

3.1.3. Failure to observe the safety regulations

Any failure to observe the safety and protection regulations, or the legal and technical regulations in place, may lead to reversible or irreversible personal injury, material damage or pollution of the environment.

3.1.4. Personnel Qualification

Personnel responsible for installation, commissioning, diagnosis and maintenance must:

- Be trained and qualified to perform these functions.
- Be authorized by the plant operator.
- Be familiar with the relevant standards and directives and with national regulations.
- Read and understand instructions and additional documentation as well the relevant certificates.
- Follow instructions and general conditions.
- Be trained in the handling of hazards and risks involved in the installation and operation of electrical devices and systems.

Operating personnel must also:

- Be instructed and authorized by the plant operator in the task requirements.
- Follow the instructions in this document.

3.1.5. Intended Use

The gateway Superlink C gathers measurement data sent by measurement equipment via radio communication options (Sontex and wM-Bus). It can be used universally in industry, district heating and building services engineering.

- The manufacturer is not liable for damage resulting from improper use. Modifications and changes to the device must not be made.
- The Superlink C may only be operated within the conditions specified in the technical specification.
- Seals may not be removed except by authorized persons. Country-specific and local regulations as well as the manufacturer's instructions must be observed. The manufacturer assumes no responsibility for changes to the data relevant for calibration and measurement if the factory seal has been broken.
- If several heat meters are used in one billing unit, the same device types and installation positions should be selected to ensure that heat consumption is measured as fairly as possible.

3.2. General icons

🛕 DANGER

This combination of symbol and keyword indicates an immediately hazardous situation liable to cause death or personal injury unless prevented.

WARNING

This combination of symbol and keyword indicates a potentially hazardous situation capable of causing death or personal injury unless prevented.



This combination of symbol and keyword indicates a potentially hazardous situation capable of causing minimal or minor personal injury unless prevented.



Notice

This combination of symbol and keyword indicates a potentially dangerous situation which, if not prevented, is capable of causing material damage.



Directive or measure to be applied.



Informative comment.



Suggestion, advice or help in case of problems.



Reference to other documentation.

3.3. General rules

3.3.1. Occupational Safety



Electrical current Risk of electrocution

\Lambda DANGER

1. Wear the protective equipment required under national regulations.

3.3.2. Operational safety



A DANGER

Risk of electrocution

Electrical current

- 1. Operate the device only when it is in a fault-free and safe condition.
- 2. The operator is responsible for the trouble-free operation of the device.

Modifications to the device



Unauthorized modifications

Notice

Risk of equipment malfunction

If modifications are nevertheless necessary, consult your local representative or Sontex SA.

Repair

To ensure continued operational safety:

- Only carry out repairs to the electronic device if these are expressly permitted.
- Observe the national regulations concerning the repair of an electrical and electronic devices.
- Only use original Sontex spare parts and accessories.

Environmental requirements

If the plastic housing of the Superlink C is permanently exposed to certain vapor-air mixtures, the housing may be damaged.

- Contact your Sontex sales office for assistance.
- For use in areas subject to approval: See the information on the nameplate.

3.3.3. Product Safety

The Superlink C has been built and tested in accordance with good, state of the art engineering practice to ensure it's safe operation; it left the factory in technically perfect condition. It meets the general safety and legal requirements. It also conforms to the EC directives listed in the device-specific EC Declaration of Conformity. Sontex SA confirms this by affixing the CE mark.

4. Description

4.1. Operating principle and application

The Superlink C is a gateway that, in conjunction with the Sonexa Platform, enables flexible consumption data to ensure EED compliance. Consumption data from wM-Bus / OMS radio (868 MHz unidirectional) and Sontex (433 MHz bidirectional) radio devices are collected by the Superlink C gateway and securely transmitted to the Sonexa Platform via NB-IoT. 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.

In addition, the Superlink C has a USB interface that allows it to be configured with the Superprog software if necessary.



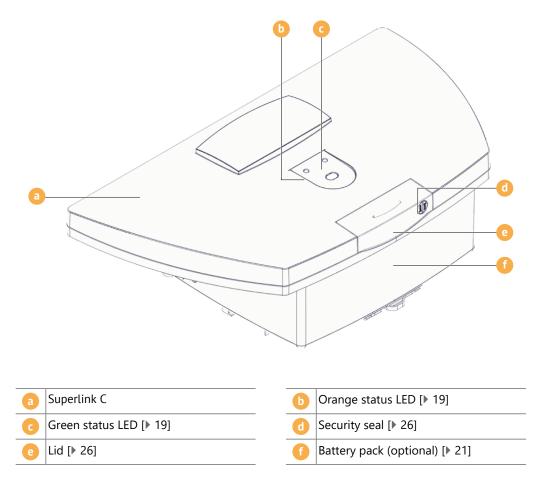
4.2. Box content

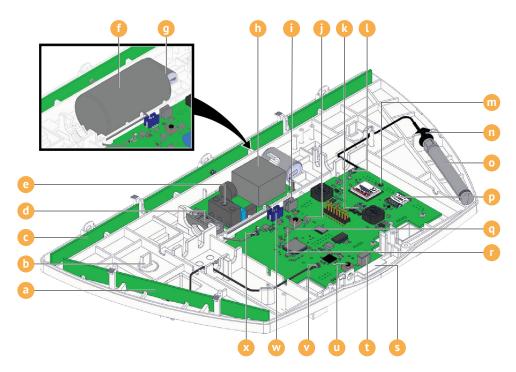
The following equipment are included in the scope of delivery for the Superlink C:

- Superlink C (battery, battery pack or 230 V configuration).
- 60 Ah or 120 Ah battery pack (only for battery pack configuration).
- Drilling template.
- Fixing plugs, screws and washers.
- Two security seals.
- SIM card (optional).
- Installation guide.

4.3. Description and component location







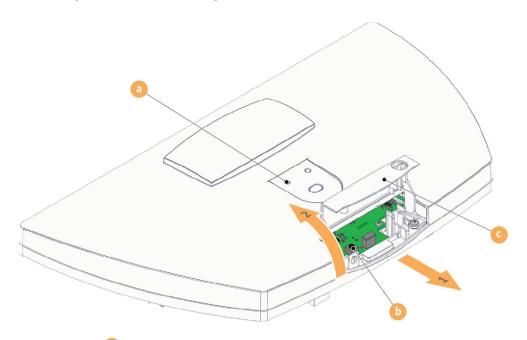
a	wM-Bus / OMS antenna [) 23]
C	Radio Sontex antenna [> 23]
e	230 V cable connector [> 21]
g	Backup battery [) 46]
0	Backup battery connector [> 46]
k	NB-IoT module LEDs [> 49]
m	NB-IoT module
0	NB-IoT antenna [) 23]
q	Reset button [) 32]
S	Serial number
U	Sonexa Platform button (commissioning button, connects with Sonexa Platform) [▶ 18]
w	Battery pack power connector [> 32]

b	Passage for antenna extension cable [▶ 39]
d	Cable tie [▶ 28]
ſ	Battery power supply [> 21]
h	230 V power supply [▶ 21]
j	Green status LED [▶ 19]
0	NB-IoT antenna connector
n	NB-IoT antenna connector [> 39]
р	SIM card slot [35]
ſ	Orange status LED [19]
t	USB connector (mini A) [> 35]
V	wM-Bus / OMS antenna connector [▶ 42]
x	Radio Sontex antenna connector [▶ 41]

4.4. Put in commissioning mode

In constant communication mode, Superlink C opens communication with all the devices included in the projects. It is very useful for installation and debugging.

- **1.** If necessary, remove the seal.
 - → See [Security seal removal ▶ 26].



- 2. Pull the lid C
- 3. Open the lid C.
- 4. Press the Sonexa Platform button \bigcirc for three seconds.
 - \rightarrow The orange status LED \bigcirc blinks three times.
 - Superlink C is connected to Sonexa Platform, checks the correct date and time, downloads any pending tasks from the Sonexa Platform message queue, executes them and stays in commissioning mode.



Closing communication can only be done from Sonexa Platform!

4.5. LED status

Orange LED

The orange LED informs about Superlink C communication.

Communication type	LED
Sontex radio	Irregular blinking during communication
wM-Bus /OMS	Regular blinking during communication
Control of pending tasks (a short press on the Sonexa Platform button)	Blinks one time
Connecting to Sonexa Platform (a three second press on the Sonexa Platform button)	Blinks three times

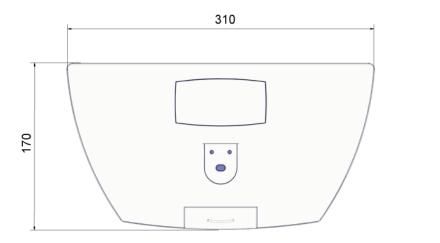
Green LED

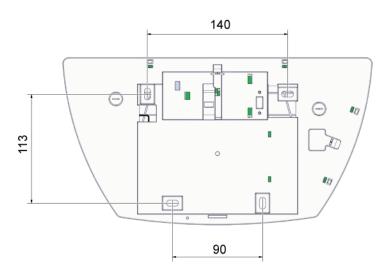
The green LED informs about Superlink C power supply.

Power supply	LED
Battery or battery pack	Blinks every 4 seconds
230 V	Stays lighted
Backup battery	Blinks every 8 seconds

4.6. Dimensions

With battery or mains power

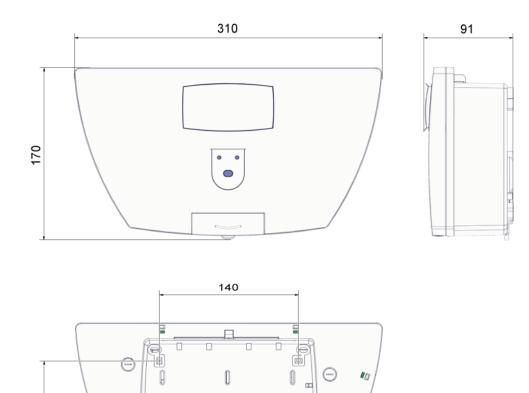






With battery pack

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4.7. Technical data

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General	 Weight (net) 0.555 kg (version with 1 D cell) 1.040 kg (version with 60 Ah battery pack) 1.360 kg (version with 120 Ah battery pack) 0.500 kg (version with 230 VAC power supply)
	Cable entries Two in the bottom of the housing
	Interface connection Access protected by a lead seal
Mounting	Wall mounting Through 4 holes in the housing bottom
Protection class	 Housing IP40, except for the cable passages
Flammable class	Housing According to UL94 V2
Temperature	Operation 5°C à 55°C
	Storage -10°C à 60°C (dry environment)
Interfaces	 USB Standard NB-IoT, LTE-M Standard
Power supply	 Main power supply module 110-240 VAC 50/60 Hz, 0.11 A Grounding according to IEC 60417-6092 Backup 3.6 V Format 1/2AA Lithium
	 Battery 1x 3.6 V Format D Lithium (Li-SOCI2) + Backup 3.6 V Format 1/2AA Lithium
	 Battery pack 60 Ah 3x 3.6 V D-Format Lithium (Li-SOCI2) + Backup 3.6 V 1/2AA Lithium
	 Battery pack 120 Ah 6x 3.6 V D-Format Lithium (Li-SOCI2) + Backup 3.6 V Format 1/2AA Lithium
Power consumption (230 VAC version)	~5 kWh For 8 hours reading / week

4.7.1. Power supply and reading intervals

The Superlink C gateway is available in several variants to meet customer needs:

- **Battery-powered variants:** flexible and location-independent applications.
- **230 VAC powered variant:** projects requiring a larger reading interval. It is particularly suitable for monitoring and alarms.

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

* Operating time when using NB-IoT.

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

4.7.2. Radio communication

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

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5. Mounting

5.1. Placing Superlink C

As Superlink C has to communicate with other devices, his location is important. Although Superlink C has a range of 1 kilometer in free field, indoors, this range decreases and varies greatly depending on the type of construction.



To realize an installation in large buildings, the use of several Superlink C will be necessary.

- 1. Place Superlink C well in the center of all the equipment it needs to communicate with.
 - Usually, Superlink C communicates easily with equipment installed within 30 meters and placed up to 2 floors above and below.
- 2. Respect the following indications:
 - Radiant heat and electrical interference fields in the vicinity of the Superlink C must be avoided.
 - → Check the design data of the components.
 - → The permissible ambient temperature for the Superlink C is 5 to 55 °C.
 - → The installation and project planning regulations must be adhered to.
 - The calculator Superlink C faceplate must be legible.



Sontex strongly recommends performing a communication test with other equipment before mounting.

Refer to Sonexa Platform documentation.

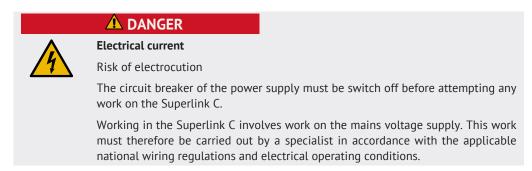


To suit any installation location, Superlink C can be equipped with remote antennas.

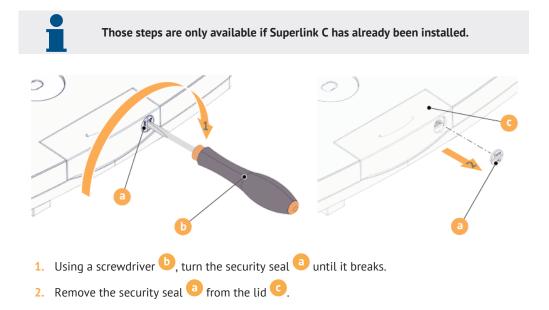
See [Remote antenna ▶ 39].

5.2. Opening Superlink C

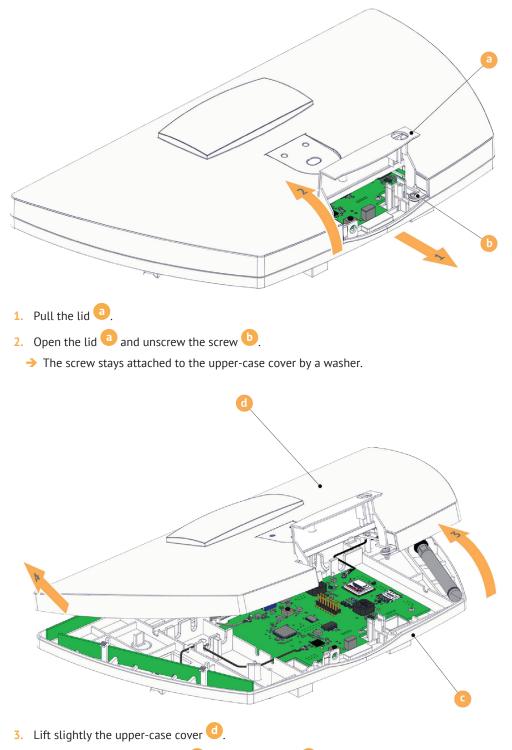
Safety concern only available for 230 V option



5.2.1. Security seal removal



5.2.2. Upper-case cover removal



4. Remove the upper-case cover \bigcirc from the housing \bigcirc .

5.3. Mounting

Notice Test before drilling Risk of non-communication with some devices Depending of positioning, Superlink C may not be communicating with all its devices. Sontex strongly recommends using the commissioning mode to test the communication between Superlink C and all the devices before drilling. See [Put in commissioning mode ▶ 18].



The Superlink C can be fixed horizontally or against a wall.

5.3.1. 230 V model

A DANGER

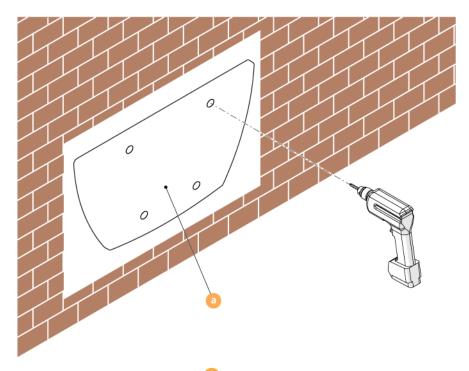


Electrical current

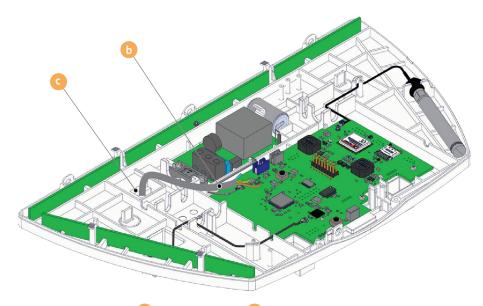
Risk of electrocution

The circuit breaker of the power supply must be switch off and the electrical connection lead must be voltage-free during Superlink C mounting.

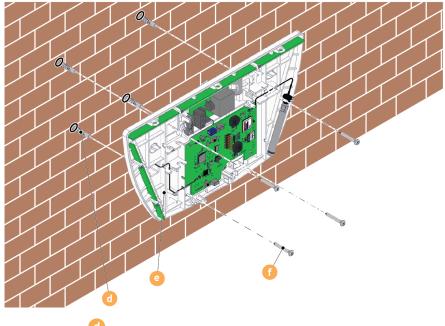
Installing the Superlink C involves work on the mains voltage supply. This work must therefore be carried out by a specialist in accordance with the applicable national wiring regulations and electrical operating conditions.



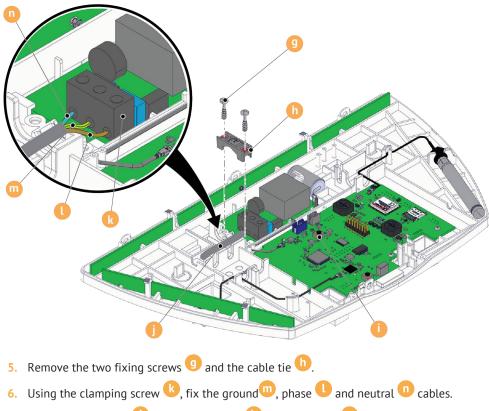
1. Using the housing drilling template \bigcirc , drill four Ø 6 x 30 mm holes.



2. Pass the power cable \bigcirc through the hole \bigcirc .

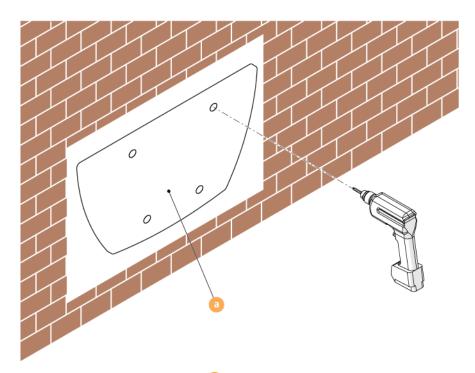


- 3. Insert the plugs d in the holes.
- 4. Fix the battery pack ^(a) using four screws ^(f).

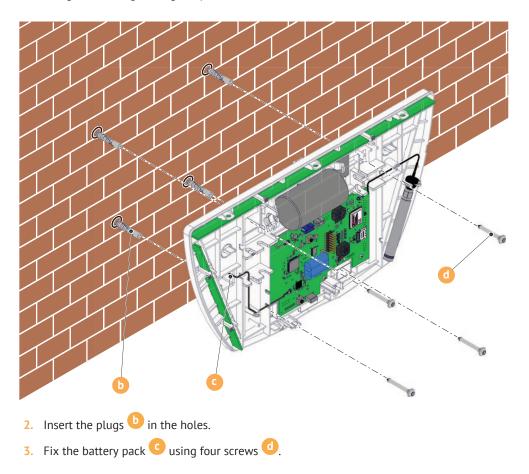


- 7. Fix the power cable **()** with the cable tie **(**) and its screws **(**).
- 8. Power up the Superlink C.
- 9. Press the *Reset* button

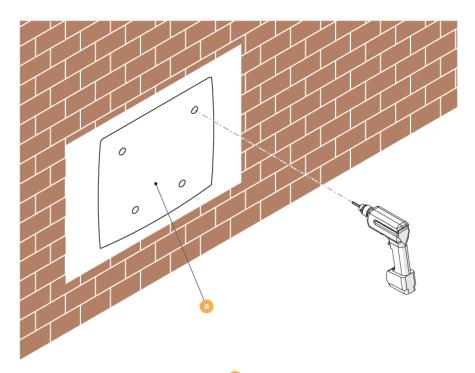
5.3.2. Battery model



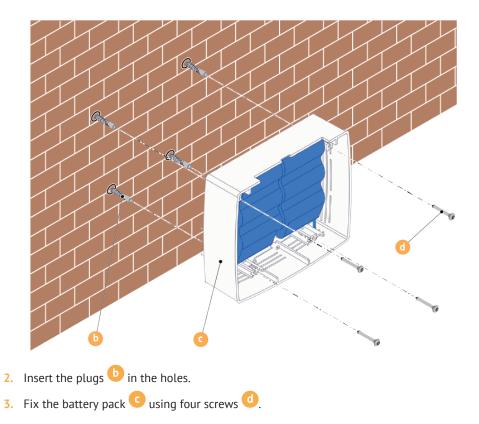
1. Using the housing drilling template \bigcirc , drill four Ø 6 x 30 mm holes.

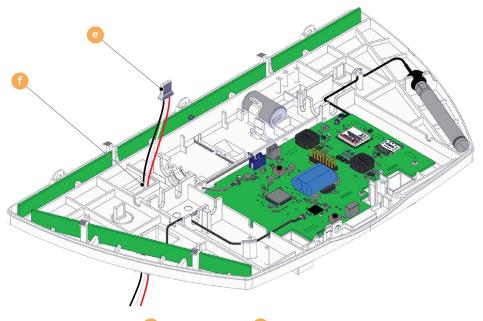


5.3.3. Battery pack model

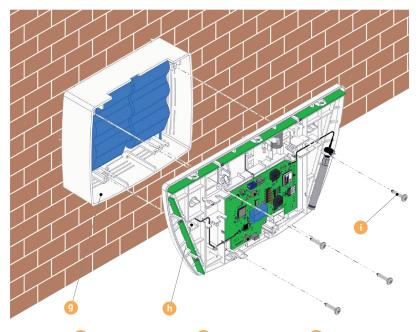


1. Using the battery pack drilling template \bigcirc , drill four Ø 6 x 30 mm holes.

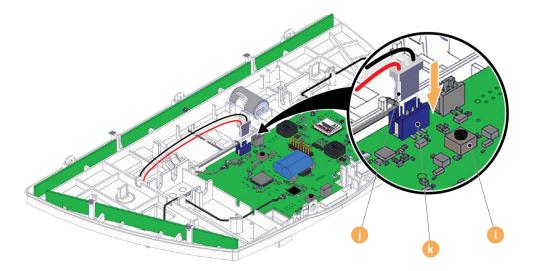




4. Pass the power cable \bigcirc through the hole \bigcirc .



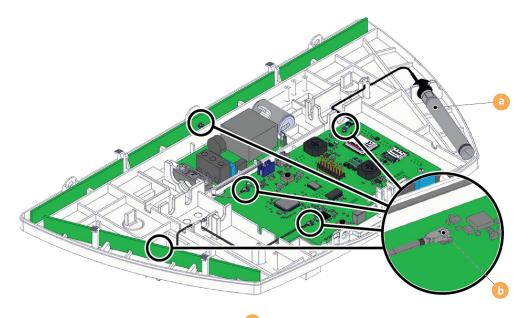
5. Fix the housing (b) on the battery pack (g) using four screws (b).



- 6. Put the plug in the connector k.
- 7. Press the *Reset* button **(**).

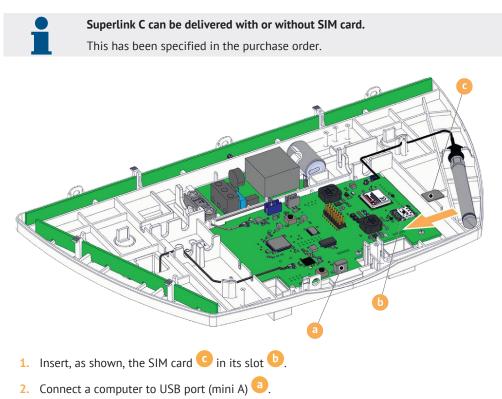
5.4. Before closing

5.4.1. Antenna connectors



- 1. Check that NB-IoT antenna is properly a tighten.
- 2. Check that all five antenna connectors ^b are properly connected.

5.4.2. SIM card



3. Use *Superprog* to configurate the *NB-loT* communication.



Refer to Superprog documentation.

4. Unplug the USB cable after configuration.

5.4.3. Superlink C first start-up

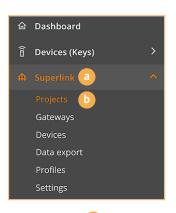
- ✓ Superlink C is installed and connected with Sonexa Platform.
- All the devices are installed.
 - 1. Get connected to Sonexa Platform.

Les 1	

Refer to Sonexa Platform documentation.

2. Open constant communication with all the devices.

→ See [Put in commissioning mode ▶ 18].



3. Go to *Superlink* menu (a), then to *Projects* (b) tab.

â	Projects				
6	₩ FILTER				
	NAME *	READOUT PROFILE ~	NEXT READOUT	GATEWA *	DEVICI
⊒ ⊘	Address	Biweekly readout	01.07.2022	1	
G	RédaTech	Biweekly readout	01.07.2022	0	
•					

4. Click on the project to test in the list C.



- 5. Click on the button ^(C).
 - → A popup window is displayed.
- 6. Click on 0 d to start the test readout for the project.

:	♠ Superlink > Projects > Address			Q		onexa
	Project Address					
L	Readout profile: bi-weekly read-out				€ ⊊	:
	Immediate Test Readout has been triggered.					×
	There are test readouts running for this project. See Test readouts					
	> 2nd floor (4/0/0)	=+	<u></u> ;	٩	÷	\rightarrow
	Gateway_28397092_SON - 28397092				:	\rightarrow
	Unknown (OMS) - 15162975			٢	:	\rightarrow
	ON-SA2-R - 27841548			٢	:	→
	SON-566 - 26725250			٢	:	\rightarrow
	0.000 2072220					

→ Superlink C is connecting with all the installed devices.

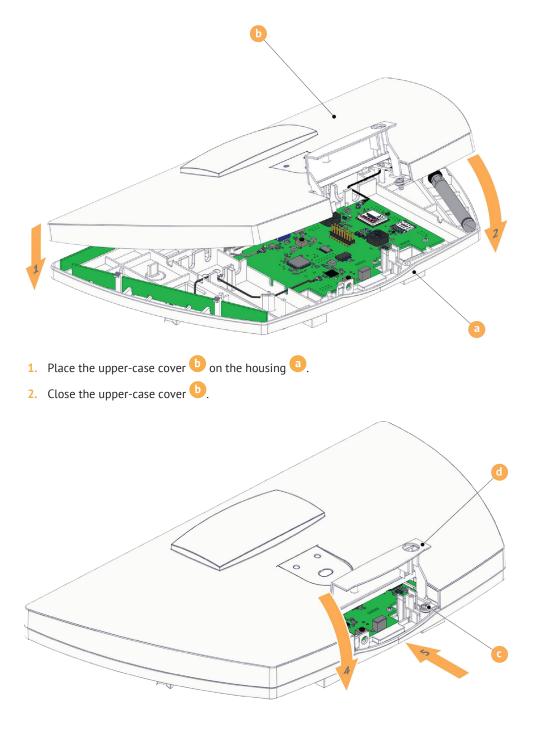
۲ ۵	Project Address						
î F	Readout profile: bi-weekly read-out				€ 5∎	÷	
8	> 2nd floor (4/0/0)	≡+	2 ;	٢	:	\rightarrow	
	f Gateway_28397092_SON - 28397092				:	→g	
≗ ĵ	son-sa2-R - 27841548 🔺			٩	:	\rightarrow	
@	SON-566 - 26725250			٢	÷	\rightarrow	
1	✿ SON-581 - 26401841 ▲			٢	:	\rightarrow	
•				_		\rightarrow \rightarrow	

- → When the test readout is finished, all device icons connected to the Superlink C are displayed in green ⁽¹⁾.
- 7. Click on \rightarrow (9) to display the Gateway details.

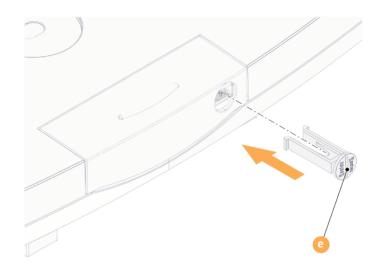
ጬ	← Back to Address	
Î	Gateway Gateway_28397092_SON	
•	SN: 28397092	÷
8		
	SLC is in installation mode.	
2		
()		
#		

8. Click on *DISCONNECT* to close constant communication with the gateway.

5.5. Closing Superlink C



- 3. Tighten the screw C.
- 4. Close the lid ⁽¹⁾.
- 5. Push the lid d.



6. Insert the security seal ^e all the way in until it clicks into place.

5.6. Remote antenna

All Superlink C antennas can be replaced by remote antennas.

	🛕 DANGER
	Electrical current
1	Risk of electrocution
	Conductive part outside the ho
	The remote antennas used me

The remote antennas used must have the same technical characteristics as the Superlink C antennas.

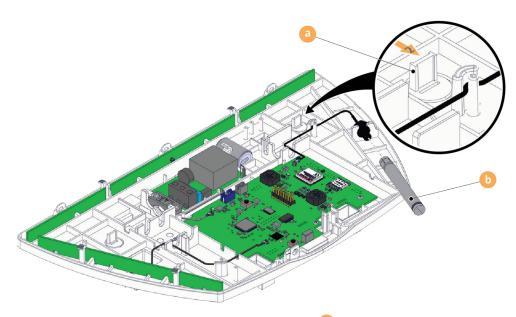
See [Radio communication ▶ 23].



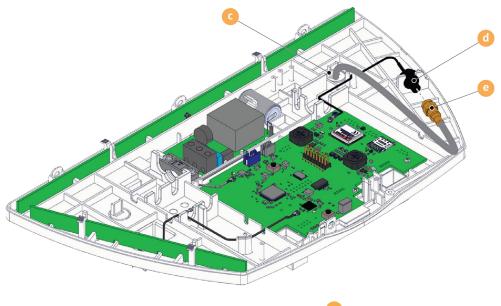
Sontex provides all optional fittings and remote antennas. Contact [Support ▶ 5] for more information.

5.6.1. NB-IoT, LTE-M antenna

Upper-case cover removed.
 See [Upper-case cover removal > 27].



- 1. Unscrew and remove the Superlink C NB-IoT antenna **b**.
- 2. Pull the lever ^a to open the passage hole.

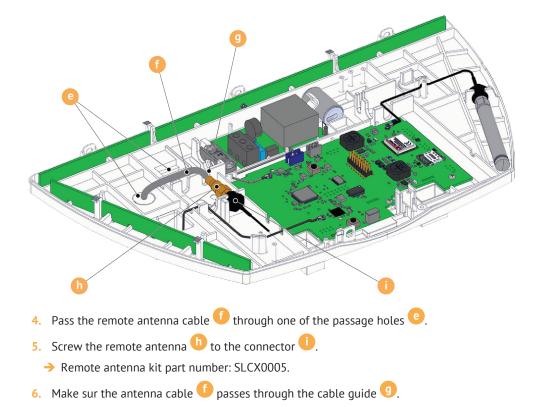


- 3. Pass the remote antenna cable through the passage hole \bigcirc .
- 4. Screw the remote antenna ^(c) to the Superlink C connector ^(d).

5.6.2. Sontex radio antenna

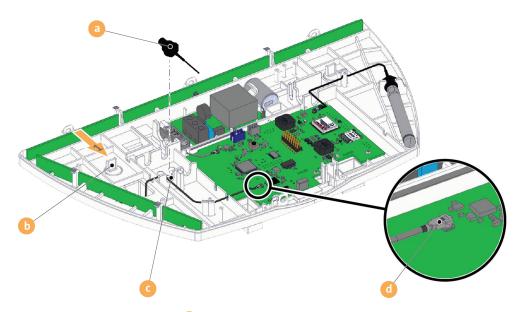
✓ Upper-case cover removed.

- See [Upper-case cover removal » 27].
- **1.** If necessary, pull the lever \bigcirc to open the passage hole.
- 2. Fix, by screwing the nut, the Sontex radio antenna connector \bigcirc into its housing \bigcirc .
- 3. Replace the radio antenna plug d with the connector plug.

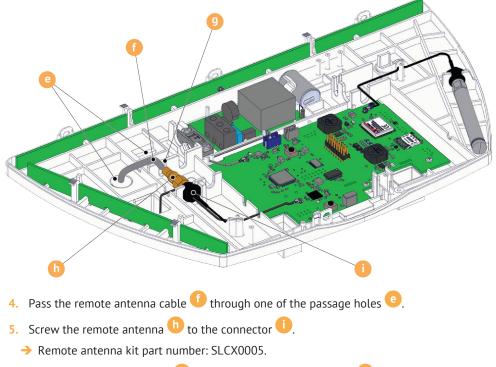


5.6.3. wM-Bus / OMS antenna

Upper-case cover removed.
 See [Upper-case cover removal > 27].



- **1.** If necessary, pull the lever \bigcirc to open the passage hole.
- 2. Fix, by screwing the nut, the Sontex radio antenna connector \bigcirc into its housing \bigcirc .
- 3. Replace the radio antenna plug d with the connector plug.



6. Make sur the antenna cable \bigcirc passes through the cable guide \bigcirc .

6. Maintenance



After every battery change, update the last battery change date in the firmware using Sonexa Platform or Superprog!



Refer to Sonexa Platform documentation.



In case of problems during firmware update using Sonexa Platform, connect a computer using the Superlink C USB port and use Superprog to resolve.



Refer to Superprog documentation.

6.1. Battery change



Discharged backup battery

Notice

Total loss of configuration

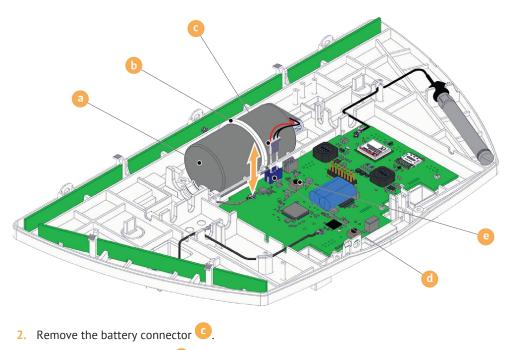
1. Plan to change the battery before the backup battery is completely discharged, otherwise you will have to reinstall the Superlink C completely.



Sonexa Platform informs you when the battery must be changed.

1. Remove the upper-case cover.

→ See [Opening Superlink C ▶ 26].



3. Cut the Hellermann Tyton **b**.

- 4. Change the battery ².
- 5. Fix the new battery \bigcirc with a new Hellermann Tyton \bigcirc .
- 6. Connect the battery \bigcirc to the board \bigcirc .
- 7. Press the *Reset* button e
- 8. Close the upper-case cover.
 - → See [Closing Superlink C > 38].

6.2. Battery pack change

Discharged backup battery

Notice

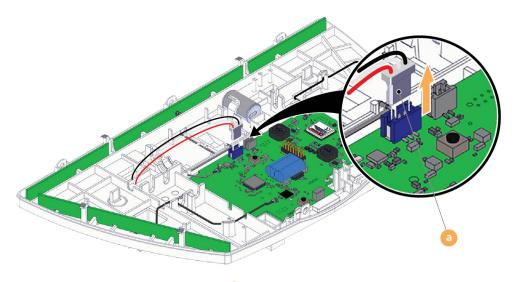
Total loss of configuration

1. Plan to change the battery pack before the backup battery is completely discharged, otherwise you will have to reinstall the Superlink C completely.

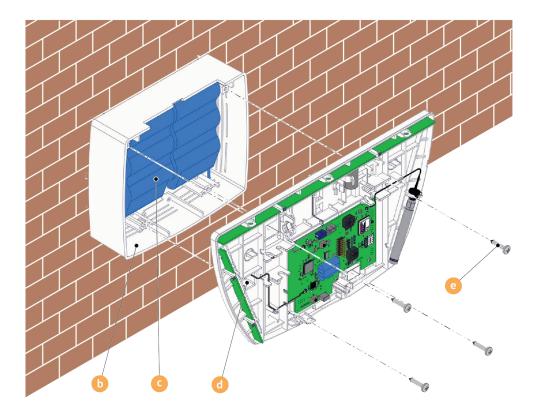


Sonexa Platform informs you when the battery pack must be changed.

- **1.** Remove the upper-case cover.
 - → See [Opening Superlink C > 26].



2. Remove the battery pack connector \boxed{a} .



- 3. Remove the screws ^e.
- 4. Remove the Superlink C d from the battery pack b.
- 5. Change the battery(ies) pack C.
- 6. See [Battery pack model ▶ 32] to remount.

6.3. Backup battery change

Notice

 \wedge

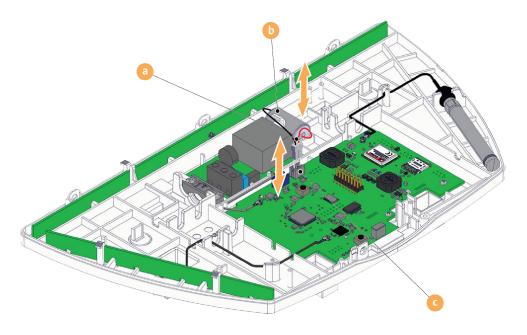
Discharged battery or battery pack

- Total loss of configuration
 - 1. Plan to change the backup battery while the battery or battery pack has still some charge, otherwise you will have to reinstall the Superlink C completely.



Sontex recommends to change the backup battery maximum every ten years.

- **1.** Remove the upper-case cover.
 - → See [Opening Superlink C ▶ 26].



- 2. Remove the battery connector ^a.
- 3. Unclip the backup battery \bigcirc .
- 4. Clip the new backup battery **b**.
- 5. Connect the backup battery to the board \bigcirc .
- 6. Close the upper-case cover.
 - → See [Closing Superlink C ▶ 38].

6.4. Firmware update



The firmware is done through Sonexa Platform.



Refer to Sonexa Platform documentation.

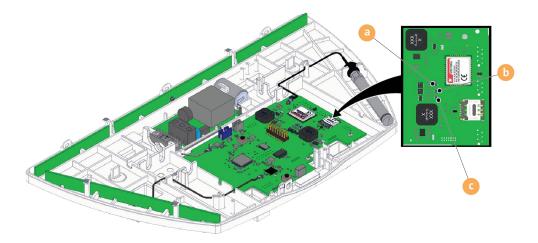


Refer to Superprog documentation.

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7. Troubleshooting

7.1. NB-IoT LEDs status



Network status indication (green)

Status	Description
Off	Not powered
Slow blinking	Not registered
Fast blinking	Data transmits

Sonexa Platform connection status () (green)

Status	Description
Off	Not connected
On Connection established	Stays lighted

NB-IoT module status C (red)

Status	Description
Off	Low power
On Connection established	Active



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