Nokia FastMile

5G Receiver

(EN)

→ You have received:

3 m

Bracket

10 m
2 flat cables

5G Receiver PoE adapter

Power cable   Clamp   Cleaning cloth
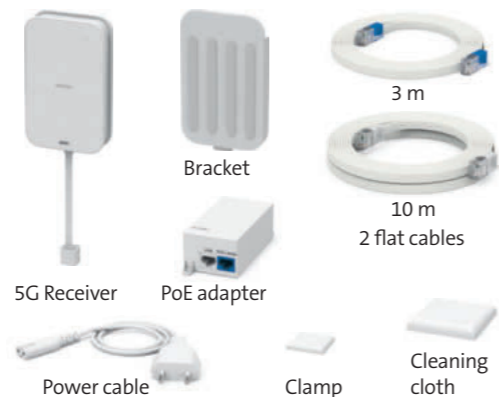
These routers are compatible:

Internet-Box 3
for residential customers

Centro Business 3.0
for business customers
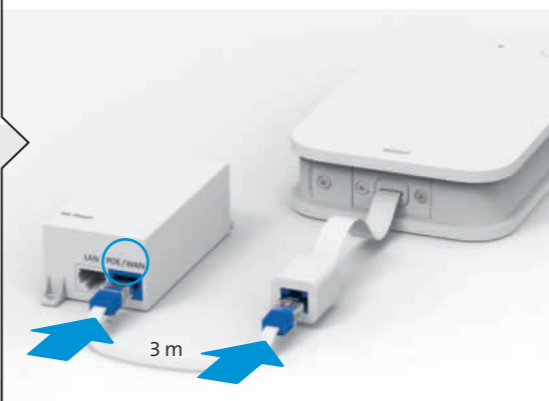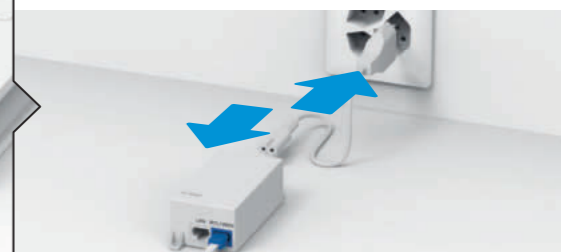
1 Remove, if present, your old Internet-Booster.

2 Connect the PoE adapter and the 5G Receiver using the 3 m cable.

3 m

3 Connect the PoE adapter to the nearest power socket next to a window.

The 5G Receiver will start up and flash green at the same time. When the LED stops flashing, the 5G Receiver is ready for use.

Installation overview

Router
(Internet-Box 3 or Centro Business 3.0)

3 m   10 m

The 5G Receiver is now set up and your Internet connection is faster.

9 Connect the PoE adapter and the router with the 10 m cable.

Ports 1-4

or

Port 4
(WAN)

LAN POE / WAN

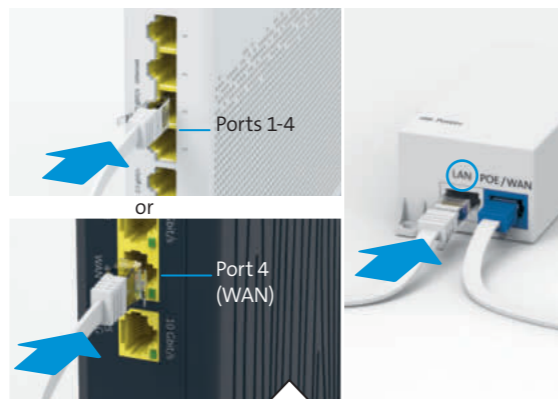**4** Open the window and hold the device in the window opening **with the Nokia logo facing outwards**. Press the measurement button.

LED   Measurement button
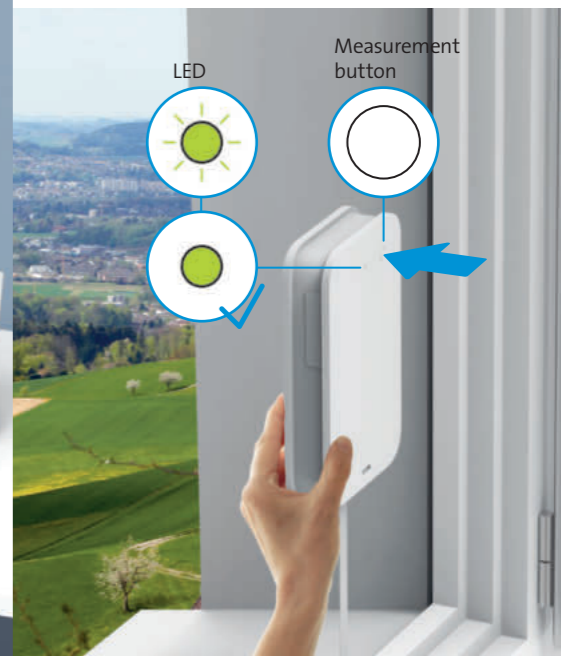
Note the LED behaviour on the back if the LED is neither flashing green nor lit green. **2**

Instructions for a safe location and measurement via Nokia Wireless App can also be found on the back. **1**

8 Run the flat cable under the window and fix it to the frame using the clamp.
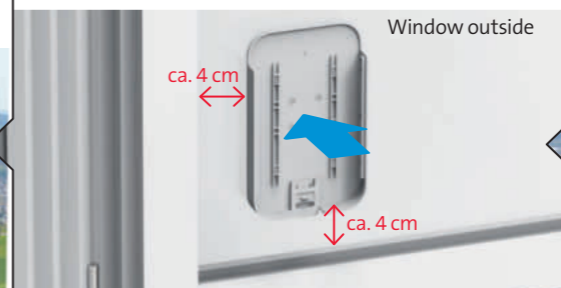
In case of leaky windows, the clamp prevents moisture from the outside from being passed on via the cable.

7 Insert the 5G Receiver (Nokia logo facing outwards) into the bracket («click»).

6 Position the bracket on the hinge side.

Window outside

ca. 4 cm

ca. 4 cm

First remove the protective film, then press down on the bracket firmly all over for 30-60 seconds. A detailed description can be found on the back page. **3**

5 The 5G Receiver should be mounted on the **outside**. Clean the window in the assembly area.

Window outside

Use the enclosed cleaning cloths for cleaning and drying. The bracket adheres reliably if the pane is dry, clean and dust-free.

B2C-TSP-UID 05/22   EN

Where should you install it? ①

Ideally, please choose a glass balcony door (not a sliding door). If this is not possible, make sure that the selected window for the installation of the 5G Receiver is not directly above an area accessible to people / pedestrians.

Determining the location

You can test the signal quality at a location using the 5G Receiver. Go to a window and connect the 5G Receiver to the PoE adapter. Open the window and hold the device in the window opening with the Nokia logo facing outwards. Press the measurement button.

Wait a moment until the LED lights up (i.e. it stops flashing).

Windows at which you get a green (or yellow) LED signal are suitable locations for installation (see also «LED behaviour»).

Determining the location using the ap

To determine the best reception location, we recommend that you install the **Nokia Wireless app** on your phone. In the app, you can see if the device is connected to 4G (LTE) or 5G. Under «advanced settings» you can view the exact signal values.

Router

LAN connector: use ports 1-4 for the Internet-Box 3 or port 4 for the Centro Business 3.0.

LED after completed installation

- ○ Internet-Box 3
- Centro Business 3.0

LED behaviour ②

- LED flashes white — **software update**
  Please do not disconnect the unit from the power supply until completed.

- LED is flashing green – **the device is starting up**

- LED lights up in green – **very good connection**

- LED lights up yellow – **connection OK**
  In this case, you can install the 5G Receiver. However, you can check whether even you can get even better reception and therefore a green light at another window.

- LED lights up red – **poor connection**
  You must choose a different location for the installation.

- LED flashes red – **no connection**
  You must choose a different location for the installation.

Buttons and connections

1. **Connector:** for the 3 m cable to the PoE adapter
2. **Measurement button:** use the Nokia Wireless app and this button to measure the signal quality. The result is displayed via the LED colour on the device and on the Nokia Wireless app.
3. **Power connector:** for the power cable
4. **LAN connector:** for the 10 m cable to the router
5. **POE / WAN connector:** for the 3 m cable to the 5G Receiver

Connection with a WLAN-Box 2/3

If you use an Internet-Box 3 and you can't connect the 5G Receiver directly to the Internet Box 3, you can also connect the 5G Receiver to a WLAN Box via a cable.

Mounting the bracket ③

1. **Position on the hinge side**
   The 5G Receiver must be mounted on the hinge side of the outside of the window so that the cable moves very little when the window is opened.

2. **Avoid fittings in the frame**
   The flat cable may be clamped in the frame. To avoid damaging the cable, position the 5G Receiver so that there are no fittings in the frame just below the unit.

3. **Clean the window**
   Use the enclosed cleaning cloths for cleaning and drying. The 5G Receiver only adheres reliably if the pane is clean, dust-free and dry.

4. **Distance from window frame**
   The bracket must be attached approximately 4 cm from the lower frame.

   ca. 4 cm
   ca. 4 cm
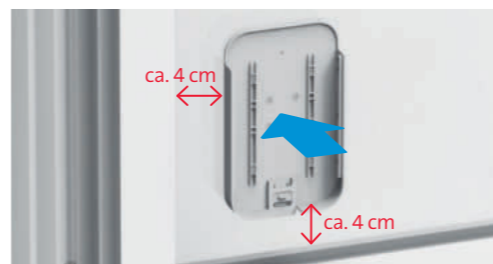
5. **Press the bracket on firmly**
   First remove the protective film from the bracket. Then press the bracket down hard over the entire surface for 30-60 seconds. The bracket is firmly attached if the adhesive strips appear dark all over and thus fit snugly against the pane.

Repositioning the 5G Receiver

1. **Removing the 5G Receiver from the bracket**
   Press the tab against the window and pull the 5G Receiver out of the bracket.

2. **Lift the corner of the bracket**
   Lift one corner of the bracket. This enables you to remove the bracket easily.

3. **Repositioning the bracket**
   You can now move the device to another location. Please note the tips for mounting the bracket.

Switching off and restarting the 5G receiver

To switch off the 5G Receiver, unplug the power cable from the wall socket.
The 5G Receiver will restart when the power cable is plugged back in.

Safety and regulatory information

Installation and maintenance
> Place the device in an upright position when mounted (LAN cable on the bottom).
> When installing on the window, avoid cracks on the glass, bending glasses and position the device carefully against the risk of fall.
> Install the unit with the enclosed clamp (see front side step 8) to prevent water drops from reaching the plugs along the cable in case of leaking windows.
> Please observe a minimum clearance of 20cm to the device.
> Please observe Gecko Tape instructions provided on the manual for the correct installation.
> Only operate the FastMile 5G Receiver in temperatures ranging from -30 to 55°C.
> Only operate the provided PoE injector indoor with your 5G Receiver, in temperatures ranging from 0 to 40°C.
> Do not touch the FastMile 5G Receiver or its PoE injector during storms.
> Do not open the FastMile 5G Receiver or its PoE injector, it will void your warranty. Risk of electric shock.

4G / 5G Radio and Bluetooth
Nokia's FastMile 5G Receiver radiates radio frequencies and complies with EU radiation exposure limits set forth in an uncontrolled environment. The device should be placed in such way, that there is always a minimal distance between human and device of 20cm. Keep also a distance of 20 cm between other wireless devices like DECT phones. The Nokia FastMile 5G Receiver is not allowed to be manipulated and to the change antennas. Do not open the device, it will void the warranty.

All operating bands and maximal transmitting power of the 5G Receiver:

Radio	Band	Frequency (TX, MHz)	EIRP(dBm)	EIRP(mW)
4G LTE	1	1920 ~1980	26	398
	3	1710 ~ 1785	25.3	339
	5	824 ~ 849	24.2	263
	7	2500 ~ 2570	27	501
	8	880 ~ 915	23	200
	20	832 ~ 862	24	251
	28	703 ~ 748	23	200
	32(DL)	NA	NA	NA
	38	2570 ~ 2620	24.5	282
	40	2300 ~ 2400	24.8	302
	41	2496 ~ 2690	27	501
5G NR FR1	N1	1920 ~2170	24.8	302
	N3	1710 ~1785	25	316
	N5	824 ~ 849	23	200
	N7	2500 ~ 2570	29	794
	N8	880 ~ 915	24	251
	N20	791~ 821	23	200
	N28	703 ~ 748	23	200
	N40	2300 ~ 2400	29	794
	N41	2496 ~ 2690	32	1585
	N78	3300 ~ 3800	34	2512
BT		2400 ~ 2480	8.85	8

Device Security
5G Receiver is subject to Nokia's Design for Security and «Compliance Audit and Privacy System (CAPS)» standard and practices, aiming to ensure the highest level of Security for use in a network. Nokia's Design for Security ensures continuous monitoring and assessment of publicly disclosed Common Vulnerabilities and Exposures (CVE) to pro-actively prevent cybersecurity threats.

Ingress Protection Rating (IP66)
Nokia's FastMile 5G Receiver enclosure is Dust and Waterproof, compliant to Ingress Protection rating (IP66) according to IEC 60529 2nd Edition IP66. This standard provides a complete protection against Dust and powerful water jets from any direction. The device is protected against ingress of water directed at high pressure.

Environmental and regulatory requirements
EU RoHS (Restriction of Hazardous Substances Directive)
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (European Union (EU) Directive 2011/65/EU and as amended).
Nokia Solutions and Networks Oy declares that the Nokia FastMile 5G Receiver is in compliance with the EU RoHS Directive.

End of Life Collection and Treatment
In the European Union, this label indicates that this product should not be disposed of with household waste. It should be deposited in an appropriate facility to enable recovery and recycling.
The Product is marked with this symbol, which is known as the WEEE mark. WEEE stands for Waste Electronics and Electrical Equipment. Electronic products bearing or referencing the WEEE mark shown above, when put on the market within the European Union (EU), shall be collected and treated at the end of their useful life, in compliance with applicable EU and local legislation. They shall not be disposed of as part of unsorted municipal waste.
Due to materials that may be contained in the Product, such as heavy metals or batteries, the environment and human health may be negatively impacted as a result of inappropriate disposal.
At the end of their useful life, the Products are subject to the applicable local legislations that implement the European Directive 2012/19/EU on WEEE. There can be different requirements for collection and treatment in different member states of the European Union.
In compliance with legal requirements and contractual agreements, where applicable, Nokia will offer to provide for the collection and treatment of Products bearing the logo above at the end of their useful life, or Products displaced by Nokia equipment offers. The equipment can be disposed at electronic waste collection points or to stores that sell electronics.
For more information regarding the requirements for recycling/disposal of the Product you may contact Nokia or Swisscom.

Simplified EC Declaration of Conformity
Hereby, Nokia Solutions and Networks Oy declares that the Nokia FastMile 5G Receiver is in compliance with Radio Equipment Directive 2014/53/EU; Low Voltage Directive 2014/35/EU; EMC Directive 2014/30/EU; and Directive RoHS (European Union (EU) Directive 2011/65/EU and as amended); and Directive Eco-design 2009/125/EC.
In accordance with Article 10.8(a) and 10.8(b) of the RED, the table above provides information on the frequency bands used and the maximum radio frequency transmit power of the Products for sale in the EU.
The declaration of conformity may be consulted at:
www.swisscom.ch/internet-booster > Downloads

Specific precautions for EMC Warning
The Products are compliant with Class B of EN 55032. The Products are tested to the requirements of EN 55032 (Emissions) and EN 55035 (immunity). There are no specific precautions which must be taken in order to comply with the requirements of Directive 2014/30/EU Essential Requirements in Section 1 of Annex I. In addition, the Products are further tested to ensure spurious emissions are within the specified limits, as well as meeting the requirements for adaptivity, which mitigates against problems caused by co-location with other wireless products. The Products are not subject to the requirements in Section 2 of Annex I of Directive 2014/30/EU for fixed installations.

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Swisscom data privacy notice

Access and data processing
If the device is operated through a Swisscom connection, Swisscom shall have access to the device and to the data needed for processing, in particular for the purposes of remote maintenance and support (automatic setup, monitoring effective functioning, software updates). Please refer to the Internet Contract Terms for further details.

You can find further information for residential customers at: swisscom.ch/Internet-booster business customers at: swissscom.ch/5g-receiver