

Nokia FastMile 5G Receiver

5G26-A

The Nokia FastMile 5G Receiver (5G26-A) is designed to help operators capitalize on the growing 5G market. This device is elegant, blending well in residential environments, is easy to deploy, can connect wirelessly to the mobile network and supports 4G and 5G bands. It can be easily mounted on a wall, balcony, pole or on the outside of a window using a bracket. An ethernet cable then routes conveniently through the window seals. Flat and round cables are supported.



The device is equipped with a high gain directional antenna with up to 10 dBi gain and complemented with lower gain antennas to improve the radio signal transmission and reception. The 5G26-A can be mounted flat on a window, wall, pole or balcony. It does not require orienting. The Nokia FastMile 5G Receiver uses a mobile application to help the subscriber select the right side of the home with the best radio reception. The receiver implements advanced 3GPP Rel 16 modem technology and extensive carrier aggregation between supported radio bands and implements several advanced radio features. The radio and antenna implementation makes the Nokia FastMile 5G Receiver the ideal choice for areas where high throughput over long distances is needed. The device is compatible with any residential gateway: paired with Nokia's in-home Wi-Fi solution, it ensures a seamless ultra-broadband experience in every corner of the home.

Features

- 3GPP Release 16 compliant
- 5G NR and 4G LTE WAN connection
- MediaTek T830 modem chipset solution for FWA
- High gain antenna up to 10dBi gain
- Support for multiple APNs (8x) and 5G network slicing
- 5G NR 3CA & 4CA with up to 300MHz bandwidth support in SA mode
- 180° field of view horizontal antenna, flat mountable and pointing not necessary
- 5G NR FR1 8Rx optional support (*)
*Contact Nokia sales for more details

Benefits

- Delivers Gigabit home broadband services with 5G new radio and 4G LTE
- Supports:
 - bridge and routed mode configurations
 - Bluetooth 5.0
 - 3-axis accelerometer sensor support
- Size and gain optimized for urban and suburban densities (up to 10dBi gain)
- High spectral efficiency lowers RAN cost
- Optional features: eSIM and GPS

Technical specifications

Connectivity interfaces

- Physical:
 - 1 x 2.5 Gigabit Ethernet (GE) LAN port
 - Bluetooth 5.0
- Slot for nano SIM card

Network termination

- SIM-tray slot (size: 4FF/nano)
- 5G NR
- 3GPP Release 16 – 5G NR
 - NSA: Option 3X and Option 3A
 - SA: Option 2

- Supported 5G NR radio bands:
 - Sub 6 GHz (FDD): n1, n3, n5, n7, n8, n20, n28, n75, n76
 - Sub 6 GHz (TDD): n38, n40, n41, n77, n78

4G LTE

- LTE UE category: DL19 / UL18 Supported LTE radio bands:
 - FDD: B1, B3, B5, B7, B8, B20, B28, B32
 - TDD: B38, B40, B41, B42, B43

Radio capabilities

- 3GPP Release 16 support based on MediaTek T830 (MT6990/M80)
- 5G NR NSA: Option 3X, Option 3A, Option 3 and 5G NR SA: Option 2
 - 7.01Gbps (DL) / 2.5Gbps (UL)
 - Up to 4CA and 300MHz bandwidth
- 8Rx support on NR TDD band n77 and n78 (Optional feature)
- DL NR FR1 CA (3T), FR1 (1F + 2T), FR1 (2T), FR1 (1F + 1T)
- DSS support on FDD and TDD bands
- UL NR FR1 2CA support
- LTE/NR modulation: 256 QAM (DL) / 256 QAM (UL)
- Sounding Reference Signal (SRS) antenna switching at 5G NR TDD bands
- Transmit antenna switching at 5G NR and 4G LTE TDD bands
- UL 2x2 MIMO at NR TDD bands
- Power class 1.5 at n41, n77 and n78
- Power class 2 at LTE: BB38, B40, B41 and NR: n38, n40, n41, n77 and n78
- Extensive EN-DC/ CA for EMEA and APAC regions

Antenna capabilities

- Optimized antennas for compact and discrete look and feel, and ease of installation
- Flat mounted, does not require pointing 180° horizontal field of view (FoV)



Security

- Adheres to strict Nokia Design for Security standards

Data Forwarding

- Support for Multiple APNs Bridge and Route mode support
- Supports B2C and B2B data forwarding scenarios for residential and enterprise customers

Mounting options

- Window, wall, pole and balcony mounting options
- 10m flat cable included

Operations, administrations and maintenance (OAM)

- Multicolor LED indicators for signal strength indication
- TR-069 and TR-181 with ACS access for remote device management
 - firmware upgrades
 - key performance indicator (KPI) management
- Support for WebGUI
 - Device management and configuration
- Support for TR-369/USP on request
- Guided installation with Nokia WiFi app
- Integrated with FastMile FWA Controller supporting point-of-sales, service fulfilment and guided install and service assurance and optimization functions

(*) optional

Physical

- Height: 178 mm (7 in)
- Width: 127 mm (5 in)
- Depth: 30 mm (1.18 in)
- Weight: 500 g (1.1 lb)

Operating environment

- Temperature, ambient: -40°C to 55°C (-40°F to 131°F) without sun load
- Environmental: IP66

Power

- Max power consumption: 10W max
- PoE/PoE+ with grounded/shielded ethernet cable design
- Nokia PoE 15W Class II
- Can be powered by Nokia WiFi Beacon G6.2

Certification

- CE/CB
- RCM
- ITU-T K.21
- IP66

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As a B2B technology innovation leader, we are pioneering networks that sense, think and act by leveraging our work across mobile, fixed and cloud networks. In addition, we create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs.

Service providers, enterprises and partners worldwide trust Nokia to deliver secure, reliable and sustainable networks today – and work with us to create the digital services and applications of the future.

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