

Nokia FastMile 5G Receiver

5G19-A

The Nokia FastMile 5G Receiver (5G19-A) is designed to help operators capitalize on the growing 5G market. This groundbreaking, innovative solution is an outdoor receiver device that is easy to deploy and can connect wirelessly to the mobile network. The device is compact, discrete and elegant, blending well in residential environments. The Nokia FastMile 5G Receiver (5G19-A) can be mounted on the outside of a home: A balcony, a pole or flat on the wall. Flat ribbon and round cables are supported for convenient routing through window seals or walls. With extensive carrier aggregation between supported bands, the Nokia FastMile 5G Receiver (5G19-A) improves performance and reliability by pooling all resources in the available 4G and 5G bands.



The device is equipped with a directional antenna (up to 8.5 dBi). It does not require any orientation thanks to its optimized antenna design with 180° Field of View. The point of sale tool helps to select the side of the home with the best radio reception and a smartphone application guides the user through the installation process. 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

- 4G LTE and 5G NR WAN connection
- Multiband omni-directional antennas designed to be radiated essentially from the device front side

Benefits

- Outdoor sub 6 GHz 5G receiver
- Delivers gigabit speeds to the home with 5G New Radio (NR)
- Provides flexible mounting options for consumer self-install and professional installation for optimal 5G connectivity
- Accessories for mounting on wall, pole and balcony
- Supports:
 - L2 Bridge mode and L3 routing
 - Connects to any residential gateway (RGW) with Ethernet WAN port
 - Multiple APN (up to 8)

Technical specifications

Connectivity interfaces

- Physical:
 - 1 Gigabit Ethernet LAN ports
 - Bluetooth 4.2 support
- Slot for nano SIM card

Network termination

- 5G New Radio (NR) 3GPP Release 15
- 4G/Long Term Evolution (LTE)
- SIM slot (size: 4FF/nano)
- 1 x Gigabit Ethernet LAN port
- eSIM support¹

5G New Radio

- 3GPP Release 15 – 5G NR NSA: Option 3X, Option 3A, Option 3 and 5G NR SA: Option 2
- Supported 5G NR radio bands:
 - Sub-6 GHz (FDD)
 - n1 (UL: 1920-1980 MHz; DL: 2110-2170 MHz)
 - n3 (UL: 1710-1785 MHz; DL: 1805-1880 MHz)
 - n7 (UL: 2500-2570 MHz; DL: 2620-2690 MHz)
 - n8 (UL: 880-915 MHz; DL: 925-960 MHz)
 - n20 (UL: 832-862 MHz; DL: 791-821 MHz)
 - n28 (UL: 703-748 MHz; DL: 758-803 MHz)
 - Sub-6 GHz (TDD)
 - n38 (2570-2620 MHz)
 - n41 (2496-2690 MHz)
 - n77 (3300-4200 MHz)
 - n78 (3300-3800 MHz)
 - 5G NR antenna gains
 - n77/n78: 4.0-7.6 dBi
 - n7/n38/n41: 3.0-4.5 dBi
 - n1/n3: 3.0-4.5 dBi
 - n8/n20/n28: 0.8-3.5 dBi
 - 5G NR DL/UL highest order modulation: 256 QAM/256QAM
 - 5G NR MIMO:
 - 1T4R: n1/n3/n7/n38/n41/n77/n78
 - 1T2R: n8/n20/n28
 - Support for Transmit Antenna Switching (TAS):
 - 1T4R: n38/n41/n77/n78
 - Support for Sounding Reference Signal (SRS):
 - 1T4R: n38/n41/n77/n78
 - Support for HPUE (26 dBm, PC2) in 5G NR bands: n78
 - Maximum 5G NR Sub-6 GHz aggregate bandwidth: DL max 200MHz (2CC) in SA
 - Extensive EN-DC and Carrier Aggregation (CA) support

LTE

- Supported LTE radio bands
 - FDD: B1 (2100 MHz), B3 (1800 MHz), B7 (2600 MHz), B8 (900 MHz), B20 (800 MHz), B28 (700 MHz), B32 (1500 MHz)
 - TDD: B38 (2600 MHz), B41 (2500 MHz), B42 (3500 MHz)
- LTE antenna gains
 - B42: 4.5-7.6 dBi
 - B7/B38/B41: 3.0-4.5 dBi
 - B1/B3: 3.0-4.5 dBi
 - B32: 3.0-4.0 dBi
 - B8/B20/B28: 0.8-3.5 dBi
- LTE DL/UL highest order modulation: 256 QAM/256QAM
- LTE UE category DL/UL: 19/18
- LTE DL MIMO

Antenna capabilities

- Optimized antennas for compact and discrete look and feel, and ease of installation
- Flat mounted, does not require pointing

Security

- Adheres to strict Nokia Design for Security standards

Data Forwarding

- Support for up to 8 APNs
- Bridge Mode for Service APNs and Routed Mode for OAM APN
- Supports B2C and B2B data forwarding scenarios for residential and enterprise customers

Mounting options

- Pole, balcony and flat wall mounting
- Ready to support desktop stand installation option with optional auxiliary mounting kit that can be purchased separately

Operations, administration, and maintenance (OAM)

- Multicolor LED 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 TR-143
- WebUI
 - Management and configuration of device
- Guided installation with Nokia WiFi app
- Integrated with FastMile FWA Controller supporting Point-of-Sales, Service fulfillment and guided install and Service assurance and optimization functions

Physical

- Device housing:
 - Height: 178 mm (7.01 in)
 - Length: 127 mm (5.00 in)
 - Width: 30 mm (1.18 in)
 - Weight: 0.45 kg (0.99 lb)
- Device with bracket and gland:
 - Height: 197 mm (7.76 in)
 - Length: 127 mm (5.00 in)
 - Width: 44 mm (1.73 in)
 - Weight: 0.45 kg (0.99 lb)

Powering

- Power over Ethernet Type 1 (15 Watt). Floating design with unshielded cable not grounded power socket (Class II) giving maximum flexibility to support outdoor deployments
- Power consumption*: Typical 9.5 W and maximum 11 W

*Actual power consumption may vary depending on final design

Operating environment

- -40°C to +55°C (-40F to 131F) without sun load

*Actual power consumption may vary depending on final design



Certification

- CE certification
- ITU-T K.21
- IP 66
- Other certifications on request
- TAC: 35143101

Buttons

- Reset

About Nokia

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