

Nokia FastMile 5G Gateway 6

The Nokia FastMile 5G Gateway 6 (5G30-03W-A) is designed to help operators capitalize on the growing 5G FWA market. The solution delivers an indoor device, built with multi-band omni-directional antenna, that is easy to deploy and connects wirelessly to the mobile network. With extensive carrier aggregation (CA) and dual connectivity (EN-DC) support, the device improves performance and reliability by using the best 4G and 5G signals available.



The plug-and-play solution is simple to install and uses the Nokia WiFi Mobile App and a LED visual guide to help the subscriber identify the right location in the home to achieve the best performance. Compatibility with Nokia's in-home WiFi 6 solution ensures a seamless ultra- broadband experience in every corner of the home.

Key features

- Self-contained, full featured, 5G residential gateway
- 3GPP Release 17 compliant based on Qualcomm SDX72-0 modem chipset solution for FWA
- 5G NR and 4G LTE WAN connections
- Multi-band omni-directional antenna up to 8 dBi gain
- Supports Sounding Reference Signal (SRS), Antenna Switching Diversity (ASD) technologies, High Power UE (HPUE) and optional 8 Rx diversity for NR TDD band to enable excellent radio performance
- Wi-Fi 6 support with 2.4/5 GHz dual band 4+4 connectivity

Benefits

- Delivers Gigabit home broadband services with 5G new radio and 4G LTE
- Reduces radio network deployment costs with mobile application guided end-user self-installation for maximum received signal strength
- Extends 5G speeds throughout the home with Wi-Fi 6 and Nokia WiFi beacons
- Support for multiple APN and 5G network slicing
- Support for containerized third-party applications
- Green design, no plastic in packaging
- Refurbish oriented, easy to change enclosure
- Rich of optional features like support of voice, 2.5G WAN/LAN port, eSIM, GPS and BT

Technical specifications

- Integrates Qualcomm SoC based modem and Wi-Fi chipset
- Multiband omni and directional antenna for 5G NR and 4G LTE with up to 8 dBi gain
- Integrated residential gateway with Corteca Device Software
- Supports prpl lifecycle management (prpl LCM) and TR-157 helping to monetize value-add applications
- Wi-Fi EasyMesh support interoperable with Nokia beacons

Connectivity interfaces

- Wi-Fi 2.4 GHz/5 GHz (4+4) dual band simultaneous operation (802.11 a/b/g/n/ac/ax, 20/40/80/160 MHz RF bandwidth)
- Physical
 - 3 Gigabit Ethernet LAN ports, one of them is configurable LAN/WAN port
 - USB 3.1 Type-C
 - 1 optional RJ-11 voice port (VoLTE, VoNR or VoIP extension)
 - Bluetooth support (PCB ready, optional feature)
 - GPS support (PCB ready, optional feature)

Hardware variants

- 5G Gateway 6
 - 5G30-03W-A: EMEA and APAC

Network termination

- 3GPP Release 17 Compliant 4G LTE and 5G NR
- SIM slot (size: 4FF/nano)
- Embedded SIM (eSIM) support (PCB ready, optional feature)
- Gigabit Ethernet (GigE) WAN

5G New Radio

- 3GPP Release 17 – 5G NR NSA: Option 3X, Option 3A, Option 3 and 5G NR SA: Option 2
- 5G30-03W-A 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
 - 5G NR antenna gains
 - n77/n78: 6-8 dBi
 - n7/n38/n40/n41: 3-6 dBi
 - n1/n3/n75/n76: 3-6 dBi
 - n5/n8/n20/n28: 0-3 dBi
 - 5G NR DL/UL highest order modulation: 256 QAM/256QAM
 - 5G NR DL MIMO (SA/NSA):
 - 4x4 MIMO: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
 - 2x2 MIMO: n75/n76
 - 5G NR UL 2x2 MIMO (SA):
 - n1/n3/n5/n7/n8/n28/n38/n40/n41/n77/n78
 - Support Antenna Switching Diversity (ASDv):
 - SA: 1T4R/2T4R: n38/n40/n41/n77/n78
 - NSA: 1T4R: n38/n40/n41/n77/n78
 - Support for Sounding Reference Signal (SRS):
 - SA: 1T4R/2T4R: n38/n40/n41/n77/n78
 - NSA: 1T4R: n38/n40/n41/n77/n78
 - Support for HPUE
 - PC2 (UL SISO): n40/n41/n77/n78
 - PC2 (UL 2x2 MIMO): 1/n3/n5/n7/n28/n40/n41/n77/n78
 - PC1.5 (UL 2x2 MIMO): n41/n77/n78
 - Maximum 5G NR Sub-6 GHz aggregate bandwidth: DL max 200MHz (3CC) in SA
 - Extensive EN-DC and Carrier Aggregation (CA) support

LTE

- 5G30-03W-A supported LTE radio bands:
 - FDD: B1/B3/B5/B7/B8/B20/B28/B32
 - TDD: B38/B40/B41/B42/B43
- LTE antenna gains:
 - B42/B43: 6-8 dBi
 - B7/B38/B40/B41: 3-6 dBi
 - B1/B3/B32: 3-6 dBi
 - B5/B8/B20/B28: 0-3 dBi
- LTE DL/UL highest order modulation: 256 QAM/256 QAM
- LTE UE category DL/UL: 20/18 LTE MIMO
 - DL 4x4 MIMO (1T4R): B1/B3/B5/B7/B8/B20/B28/B38/B40/B41/B42/B43
 - DL 2x2 MIMO (1T2R): B32
- Support Antenna Switching Diversity (ASDiv):
 - 1T4R: B38/B40/B41/B42
- Support for HPUE (26 dBm, PC 2)
 - PC2 (UL SISO): B38/B40/B41/B42
- Support for LTE UL 2 CA

Wi-Fi

- Dual band simultaneous operation (Wi-Fi 6):
 - 2.4 GHz: 802.11 b/g/n/ax, 4x4 with MU-MIMO, RF bandwidth 20/40 MHz
 - 5 GHz: 802.11 a/n/ac/ax, 4x4 with MU-MIMO, RF bandwidth 20/40/80/160 MHz
- PHY rate:
 - (Wi-Fi 6): 1.2 Gb/s for 2.4 GHz band and 4.8 Gb/s for 5 GHz band
- UL/DL MU-MIMO over oFDMA
- The device supports up to 128 clients
- Band steering and seamless roaming (IEEE 802.11k and 802.11v)
- Intelligent channel selection optimization
- Support for explicit beamforming

- Support for Nokia WiFi EasyMesh, self-optimizing network
- Mesh topology interoperable with Nokia WiFi Beacons
- Intuitive setup and management of the mesh network with Nokia WiFi Mobile App

Security

- Security support against common security threats for networking equipment and DOS attacks
- ACL and firewall are built-in and auto-enabled
- WPA support including WPA-PSK (TKIP, AES) and WPA3

Operations, administration, and maintenance (OAM)

- One LED for 5G NR/4G LTE radio status view and signal strength indication
- TR-069 with ACS access for remote device management
- TR-369 (USP)
- TR-181 data model
- TR-143 support for device diagnostics
- WebGUI support for status view and configuration
- Integrated with FastMile FWA Controller supporting Point-of-Sales, Service fulfillment and guided install and Service assurance and optimization functions
- The intelligent self-organizing mesh system delivers a superior end-user experience, enhanced by the Nokia Corteca Home Controller and the intuitive Nokia WiFi Mobile App, which also simplifies device onboarding.
- TR-157 support for Nokia and third party containerized applications

Buttons

- Power on/off
- WPS
- Reset



Physical

- Height: 199 mm (7.8 in)
- Length: 170 mm (6.7 in)
- Thickness: 65mm (2.6 in)
- Weight: 1 kg (2.2 lb)

Powering

- Powering: 12V DC power supply
- Max. power consumption: 26 W

Operating Environment

- Indoor 0°C to +40°C (32F to 104F)
- Operational up to +45°C with reduced performance
- IP20 compliant

Certification

- 5G30-03W-A:
 - CE certification
 - CB certification
 - RCM certification
 - WFA Wi-Fi 6 certification

About Nokia

At Nokia, we create technology that helps the world act together.

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.

Nokia operates a policy of ongoing development and has made all reasonable efforts to ensure that the content of this document is adequate and free of material errors and omissions. Nokia assumes no responsibility for any inaccuracies in this document and reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

© 2025 Nokia

Nokia OYJ
Karakaari 7
02610 Espoo
Finland
Tel. +358 (0) 10 44 88 000

Document code: 1396353 (May) CID213548