

## Nokia WiFi Beacon 2

Wi-Fi 6 Beacon for the intelligent mesh network

The Nokia WiFi Beacon 2 extends the whole home Wi-Fi experience for broadband subscribers. This premium class Beacon supports Wi-Fi 6 and Wi-Fi EasyMesh™, to create a whole home coverage mesh network backhauled by wired Ethernet or Wi-Fi. This coverage can be expanded at any time by installing additional Wi-Fi EasyMesh-capable beacons to ensure flawless roaming throughout the home. The Beacon 2 includes the Nokia WiFi Mesh Middleware which ensures the best possible Wi-Fi performance. The end-user experience with the intelligent self-organizing mesh system is enhanced by the service provider's Wi-Fi management capabilities in the cloud and intuitive home user support using the Nokia mobile app.

The Nokia WiFi Beacon 2 is a dual-band Wi-Fi 6 mesh system with Wi-Fi Alliance (WFA) certified Wi-Fi EasyMesh, enhanced by Nokia value added features. The Nokia WiFi Mesh Middleware creates a self-healing, self-optimizing network. It includes intelligent channel selection, band steering, client steering and backhaul management to provide the best Wi-Fi performance. As it is EasyMesh™ compliant, it provides interoperability and avoids vendor lock-in. When no dedicated gateway is in the network, the Nokia WiFi Beacon 2 will take the role of wireless router with access to the broadband network.

Optionally, the Nokia WiFi Beacon 2 can be managed by the Nokia WiFi Cloud Controller. The associated Home Console presents the help desk agents with a holistic view of the in-home network to assist them with easy identification and instantaneous resolution of issues as well as offering recommendations for operator upsell opportunities.



Nokia WiFi Beacon 2 (front view)



Nokia WiFi Beacon 2 (back view)

The Network Console provides an end-to-end Wi-Fi network view and allows management of groups of Wi-Fi networks.

The Nokia WiFi mobile app provides home users with an intuitive and simplified interface for trouble-free management of their home network and Wi-Fi. It also provides advanced functions such as parental controls.

## Features

- Functions in either routed mode or bridged mode
- Dual-band concurrent Wi-Fi 6 (AX1800), compatible with all earlier generations of Wi-Fi
- Two 10/100/1000Base-T interfaces with RJ-45 connectors
- EasyMesh enhanced by Nokia value added features
- Optimized for multicast video stream
- TR-069 Remote Management

## Benefits

- Latest Wi-Fi 6 technology which is developed for faster, more reliable connections, smoother streaming and 4-times the device connection capacity of previous Wi-Fi standards.
- Self-healing, self-optimizing mesh network
- Seamless roaming for IEEE 802.11k/v capable and legacy clients
- Client steering, channel optimization
- High quality of service (QoS) video over Wi-Fi
- Ease of setup and user intuitive information

## Technical specifications

### Physical

- Height: 168 mm (6.6 in)
- Width: 96 mm (3.8 in)
- Depth: 96 mm (3.8 in)
- Weight: 0.45 kg (1.0 lb)

### Installation

- Desktop mounting

### Operating environment

- Temperature: -5°C to 45°C (23°F to 113°F)
- Relative humidity: 5% to 95%, non-condensing

### Power requirements

- Local powering with 12 V DC input (external AC/DC adapter)
- Power consumption: <13 W

### Ethernet interfaces

- One 10/100/1000Base-T interface with RJ-45 connector for WAN
- One 10/100/1000Base-T interface with RJ-45 connector for LAN side

### WLAN interfaces

- Supports 2x2 802.11b/g/n/ax 2.4 GHz wireless LAN (WLAN) interface
- Supports 2x2 802.11 a/n/ac/ax 5 GHz WLAN interface
- Support Multi-User Multiple Input, Multiple Output (MU-MIMO)
- Support Multi-User Orthogonal Frequency Division Multiple Access (MU-OFDMA)
- Maximum effective isotropic radiated power (EIRP) on 2.4 GHz up to 3 W and on 5 GHz up to 1.5 W (dependent on hardware variant and local regulations)



- 64-bit and 128-bit Wired Equivalent Privacy (WEP) support
- Wi-Fi Protected Access (WPA) support including Pre-Shared Key (WPA-PSK), WPA2 and WPA3
- Media access control (MAC) filters

### Router mode

- IPv4 and IPv6 connectivity: Dual stack, stateless and stateful auto-configuration, DHCPv6 prefix delegation
- Point-to-Point Protocol over Ethernet (PPPoE) and IP over Ethernet (IPoE)
- Network Address Translation (NAT), port forwarding, demilitarized zone (DMZ) and firewall
- Dynamic Host Configuration Protocol (DHCP), domain name system (DNS) proxy and dynamic domain name system (DDNS)
- Internet Group Management Protocol (IGMP) v2/v3 proxy
- Virtual private network (VPN) pass-through for Point-to-Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP) and IPSec
- Flexible video delivery options over Ethernet or wireless
- TR-069 for remote management

### Extender mode

- Forwarding IPv4 and IPv6 traffic
- VPN pass-through for PPTP, L2TP and IPSec
- IGMP v2/v3 snooping
- Flexible video delivery options over Ethernet or wireless
- TR-069 for remote management with Extensible Messaging and Presence Protocol (XMPP) support for management behind a NAT router

### LED

- Simple and intuitive status indication by single, colored LED on the front side

### Buttons

- Power on/off
- Wi-Fi Protected Setup (WPS)
- Device reset

### Safety and electromagnetic interference (EMI)

- Protection of over voltage/current

### Regulatory compliances

- UL 62368-1
- IEC 62368-1
- FCC
- CE
- RCM
- Wi-Fi Alliance certified

### About Nokia

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As a trusted partner for critical networks, we are committed to innovation and technology leadership across mobile, fixed and cloud networks. We create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs.

Adhering to the highest standards of integrity and security, we help build the capabilities needed for a more productive, sustainable and inclusive world.

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