

WBE700 dual-band 2x2 PoE+ 2.5G Insight-managed WiFi 7 access point

Enterprise-class wireless for every budget — delivering WiFi 7 performance, mesh simplicity, and cloud management in a single, affordable access point.



The NETGEAR WBE700 brings WiFi 7 performance to small and medium-sized businesses at a compelling price point

Engineered to meet the demands of modern work environments, this WiFi 7 access point delivers the speed, capacity, and reliability your team requires — across every device, every user, every connection.

The WBE700 was designed with operational simplicity in mind. A 2.5G PoE+ uplink reduces infrastructure complexity by combining power and connectivity over a single cable, while seamless mesh capability ensures

consistent coverage as your environment grows. Backward compatibility with existing hardware protects your current investment and provides a clear, low-friction path to next-generation wireless.

The result is an enterprise-class access point that is easy to deploy, centrally managed, and built to scale alongside your business.

Highlights

Affordable next-gen power	Enjoy the breakthrough performance of WiFi 7 without compromising your budget. Elevate your wireless network at an SME price point
Mesh network simplicity	Expand your coverage effortlessly. The WBE700 supports true mesh capabilities with all existing Insight managed access points, giving you reliable, wall-to-wall connectivity.
Robust 2.5G uplink	Maximize your throughput with a 2.5 GbE PoE+ port, providing the bandwidth needed to support heavy traffic and fast data transfers
Top-tier WiFi 7 security	Keep your network safe with up to 8 separate SSIDs per access point, allowing you to segment traffic securely for employees, guests, and IoT devices
Reliable and future-proof	Backed by NETGEAR reliability, the WBE700 guarantees a smooth transition with full backward compatibility for 802.11ax/ac/a/b/g/n client devices

Advanced WiFi 7 technology

The WBE700 utilizes the full suite of 802.11be features to ensure your network handles every device and application with ease:

Multi-Link Operation (MLO)	Allows devices to send and receive data across multiple frequency bands simultaneously for dramatically reduced latency and improved reliability
4K-QAM modulation	Packs more data into every signal, boosting speeds by up to 20% compared to WiFi 6
OFDMA and MU-MIMO	Improves network efficiency by allowing multiple devices to communicate simultaneously, significantly reducing wait times and congestion
Spatial reuse (BSS Coloring)	Maximizes airtime efficiency to maintain high performance even in crowded, high-density environments
Target Wake Time (TWT)	Extends battery life on compatible client devices by scheduling transmissions and reducing unnecessary radio activity

NETGEAR Insight cloud management

Set up, manage, and monitor your network with comprehensive visibility. NETGEAR Insight streamlines operations through a simple, user-friendly interface accessible from any device, anywhere.

Centralized control	Monitor your access points from anywhere using the Insight Cloud portal or mobile app — no on-site IT required
Frictionless setup	Configure your network in minutes with zero-touch provisioning. Devices join and self-configure automatically.
Remote management	Troubleshoot and adjust settings remotely, including firmware updates, PoE scheduling, and performance dashboards
Scalable across sites	Manage multiple locations from a single pane of glass. Insight scales from a single AP to a multi-site enterprise deployment
1-year Insight subscription included	The WBE700 ships with a free 1-year Insight subscription. No additional hardware controller required

One subscription. Total network visibility.

Activate NETGEAR Insight Cloud management to manage your network from anywhere, at any time. The WBE700 ships with a free 1-year Insight subscription — eliminating the need for a hardware controller and reducing total cost of ownership.

Features and benefits

Features	Description
WiFi standard	IEEE 802.11be (WiFi 7), backward compatible with 802.11ax/ac/a/b/g/n
Dual-band radios	2x2 @ 2.4 GHz (688 Mbps) + 2x2 @ 5 GHz (4332 Mbps) for 5 Gbps aggregate throughput
Multi-Link Operation (MLO)	Simultaneously uses multiple bands for a single connection — lower latency, higher throughput
4K-QAM modulation	Up to 20% speed improvement over WiFi 6 by encoding more data per transmission
OFDMA and MU-MIMO	Serves multiple clients simultaneously on the same channel for greater network efficiency
Target Wake Time (TWT)	Reduces power consumption on connected devices; extends battery life on WiFi 7 clients
BSS Coloring	Reduces interference in dense environments by distinguishing overlapping network transmissions
2.5G PoE+ uplink	Single 2.5 GbE (802.3at) RJ45 port — high-speed data and power over one cable, simplifying installation
Up to 8 SSIDs	Create separate wireless networks for staff, guests, IoT, and management — all from a single AP
WPA3 and WPA2 security	Industry-standard encryption with SSID isolation and VLAN support for secure network segmentation
Seamless mesh	Pairs with all NETGEAR Insight APs for automatic client steering and zero-touch mesh expansion
NETGEAR Insight management	Cloud-based management, monitoring, and firmware updates — no local controller needed
Backward compatibility	Supports legacy WiFi 6/5/4 (802.11ax/ac/a/b/g/n) devices — protects your existing hardware investment
Wall/ceiling mountable	Compact, low-profile design for discreet installation in offices, retail spaces, or hospitality environments
Hardware warranty	NETGEAR Enterprise limited lifetime warranty

Sample application: optimizing the modern office

The WBE700 delivers enterprise-grade wireless performance for up to 75 simultaneous clients — preventing dropped video calls and slow file transfers in demanding office environments. Its 2.5G PoE+ uplink simplifies deployment by consolidating power and high-speed connectivity into a single cable when paired with an Insight-managed multi-gig switch.

For environments requiring broader coverage, multiple WBE700 units can be configured in a mesh topology, with automatic client steering ensuring devices maintain optimal signal strength throughout the workspace. The NETGEAR Insight platform manages the entire deployment from a single dashboard — regardless of the number of sites or access points.

Office deployment	Wall- or ceiling-mounted WBE700 with 2.5G PoE+ uplink to an Insight-managed multi-gig switch (e.g., MS510TXUP)
Multi-floor coverage	Multiple WBE700s in mesh mode for automatic roaming with zero-touch provisioning
Guest segmentation	Dedicated SSID with VLAN isolation for guest users, keeping them off the corporate network
IoT management	Separate SSID and VLAN for IoT devices to limit their network access and reduce security exposure
Remote IT	Full monitoring and management via NETGEAR Insight app without requiring on-site staff



Technical specifications

Features	
Wireless	
WiFi standard	IEEE 802.11be (WiFi 7); backward compatible with 802.11ax/ac/a/b/g/n
Radios	2.4 GHz: 2x2 (688 Mbps) 5 GHz: 2x2 (4332 Mbps)
Aggregate throughput	5 Gbps
Channel widths	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80/160 /240 MHz
WiFi technologies	MLO, 4K-QAM, OFDMA, MU-MIMO, BSS Coloring, Target Wake Time (TWT)
Maximum connected clients (idle)	150
Maximum concurrent clients (active)	75
SSID wireless networks	8 per access point
Antenna gain	2.4 GHz: 3.3 dBi 5 GHz: 3.8 dBi
Security	
WiFi security	WPA3 Personal, WPA2 Personal, WPA3/WPA2 Mixed Mode
Network segmentation	SSID isolation, VLAN support (802.1Q)
Access control	MAC address filtering
SSID broadcast	Configurable (hidden SSID support)
Networking	
Management	NETGEAR Insight Cloud (app + portal); standalone local GUI
Mesh	Yes — compatible with all NETGEAR Insight APs
Insight subscription included	1 year
Physical interfaces	
Ethernet port	1 × 2.5 GbE PoE+ (802.3at), RJ45
Power	PoE+ (IEEE 802.3at) or DC 12 V / 2.5 A
Standards	
WiFi	IEEE 802.11be/ax/ac/a/b/g/n
PoE	IEEE 802.3at (PoE+)
Physical	
Dimensions (W × D × H)	160 × 160 × 32 mm
Mounting	Wall or ceiling (mount kit included)
Operating temperature	0°C to +40°C (32°F to 104°F)

Radio and antenna specifications

Antenna configuration

The WBE700 uses four internal PIFA (Planar Inverted-F) antennas — two dedicated to the 2.4 GHz band and two to the 5 GHz band. All antennas are manufactured by Enrack and fed via coaxial cable. Placement is optimized for omnidirectional coverage with antenna positioning as follows:

Antenna	Band	Type	Part Number
Ant 1 (2.4G)	2400–2500 MHz	PIFA, Metal, Cable-fed	Enrack 7102A1417000
Ant 2 (2.4G)	2400–2500 MHz	PIFA, Metal, Cable-fed	Enrack 7102A1418000
Ant 3 (5G)	5150–5895 MHz	PIFA, Metal, Cable-fed	Enrack 7102A1419000
Ant 4 (5G)	5150–5895 MHz	PIFA, Metal, Cable-fed	Enrack 7102A1420000

Antenna S11 — Return loss

Return loss < -10 dB indicates acceptable antenna performance for the given frequency band. Gray cells indicate frequency is outside antenna operating band.

Freq. (MHz)	Ant 1 (2.4G)	Ant 2 (2.4G)	Ant 3 (5G)	Ant 4 (5G)
2400	-25.30 dB	-26.35 dB	N/A	N/A
2450	-19.58 dB	-16.48 dB	N/A	N/A
2500	-13.79 dB	-12.09 dB	N/A	N/A
5150	N/A	N/A	-15.34 dB	-11.07 dB
5550	N/A	N/A	-20.24 dB	-11.74 dB

Antenna isolation (S21)

Higher isolation (more negative dB) indicates less interference between antenna pairs. Values measured at key channel frequencies.

Freq. (MHz)	Ant 1–Ant 2 (2.4G)	Ant 3–Ant 4 (5G)
2400	-35.21 dB	—
2450	-32.71 dB	—
2500	-34.67 dB	—
5150	—	-43.94 dB
5550	—	-34.50 dB
5895	—	-43.67 dB

Antenna efficiency and gain

Peak gain and total radiation efficiency measured at key frequencies. All measurements taken in 3D anechoic chamber (600 MHz–8.5 GHz range, >100 dB isolation). Test date: April 9–23, 2026. Report version: V01.

Freq. (MHz)	Ant 1 efficiency	Ant 1 peak gain	Ant 2 efficiency	Ant 2 peak gain
2.4 GHz band (Ant 1, Ant 2)				
2400	70.9%	3.20 dBi	70.6%	3.24 dBi
2450	70.8%	3.21 dBi	70.0%	3.30 dBi
2500	71.3%	3.16 dBi	72.9%	3.22 dBi

Freq. (MHz)	Ant 1 efficiency	Ant 1 peak gain	Ant 2 efficiency	Ant 2 peak gain
5 GHz band (Ant 3, Ant 4)				
5150	63.8%	3.54 dBi	63.7%	3.46 dBi
5550	64.4%	3.81 dBi	61.0%	3.70 dBi
5895	65.0%	3.86 dBi	60.5%	3.57 dBi

Warranty and support

Features	
Warranty and support	
Hardware warranty	NETGEAR Enterprise Limited Lifetime hardware warranty
Hardware support	• Sprint support option with 24/5 technical support (phone, online) and Advance RMA replacement • Overdrive support option with 24/7 technical support (phone, online, 2h SLA for P1 Cases) and next business day RMA Replacement • Visit https://www.netgear.com/business/services/premium-support/ for more information
Premium support — Sprint	SKUs: SPR-WBE700-12 (1yr) SPR-WBE700-36 (3yr) SPR-WBE700-60 (5yr)
Premium support — Overdrive	SKUs: DRV-WBE700-12 (1yr) DRV-WBE700-36 (3yr) DRV-WBE700-60 (5yr)
Support information	https://www.netgear.com/enterprise-support
Package contents	
WBE700	NETGEAR WBE700 Insight Managed WiFi 7 Access Point
Mount kit	Wall/ceiling mount kit
Documentation	Installation Guide
Insight subscription	1-year Insight Cloud Management subscription

Ordering information

Region	Part Number	Description
North America	WBE700-100NAS	US/Canada
Asia Pacific	WBE700-100APS	APAC
Europe	WBE700-100EUS	EMEA
Taiwan (CTO)	WBE700-100TWS	Taiwan — configured to order

* Hardware warranty valid only if purchased from a NETGEAR authorized reseller. Requires product registration at netgear.com/business/registration within 90 days of purchase. Intended for indoor use only.

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