

WBE700Y outdoor dual-band 2x2 PoE+ 2.5G Insight managed WiFi 7 access point

Built for outdoors.
Managed from anywhere.

The NETGEAR WBE700Y access point brings the speed and capacity of WiFi 7 to outdoor business environments. From campuses, courtyards, parking lots, and hospitality venues to K-12 school yards, the WBE700Y access point simplifies deployment and ongoing management for lean IT teams and MSPs. Its IP66-rated enclosure installs directly outdoors without a separate weatherproof housing, while its -40°C to 55°C operating range delivers reliable performance in demanding environments, from extreme cold to intense heat.

Zero Touch Provisioning and NETGEAR Insight cloud management enable the WBE700Y access point to be installed on site and brought fully online by IT from anywhere. Most troubleshooting and configuration tasks can be performed remotely, reducing the time and cost associated with repeat site visits. As coverage needs grow, built-in mesh capabilities make it easy to extend

the network by connecting additional access points without trenching or re-cabling.

The result is reliable WiFi 7 in demanding outdoor environments — with lower management costs and a network that grows with the business.



Highlights

Outdoor-ready enclosure	IP66-rated for direct outdoor installation — eliminates the need for separate weatherproof housing and the labor needed to install it
Extreme temperature range	Operates from -40°C to 55°C, covering arctic winters and desert summers without additional thermal protection
Flexible antenna coverage	Both internal and external antennas give installers options: internal for high-gain directional sector coverage (~8/12 dBi) focused across outdoor areas; external omnidirectional antennas (included) for broader, all-round coverage patterns
Reduce truck rolls	Zero Touch Provisioning and Insight remote management let IT configure, monitor, and troubleshoot from anywhere — most issues resolved without sending a technician to the site
Expand without re-cabling	Built-in mesh support connects to all NETGEAR Insight access points, extending coverage to new outdoor areas without trenching or additional cable infrastructure

Advanced WiFi 7 technology

The WBE700Y delivers the complete IEEE 802.11be next-generation wireless performance to outdoor environments were previously limited to WiFi 6 and earlier standards

Multi-Link Operation (MLO)	Transmits across both 2.4 GHz and 5 GHz bands simultaneously, reducing latency for video calls, VoIP, and real-time applications even when background traffic is heavy
4K-QAM modulation	Encodes more data per transmission — delivering up to 20% greater throughput than WiFi 6 at equivalent signal strength
OFDMA and MU-MIMO	Serves multiple outdoor clients simultaneously on the same channel, eliminating the wait-your-turn contention that degrades performance in high-density areas like courtyards or event venues
Spatial reuse (BSS Coloring)	Reduces co-channel interference in environments where multiple access points operate nearby, maintaining consistent throughput
Target Wake Time (TWT)	Schedules transmissions to reduce unnecessary radio activity — extending battery life on compatible client devices in outdoor IoT and mobile deployments

NETGEAR Insight cloud management

For IT teams managing outdoor networks across multiple sites, Insight delivers complete visibility and control without requiring a technician to be on-site

Zero touch provisioning	Mount the WBE700Y, connect the PoE+ cable, and it joins the network automatically — no on-site IT expertise required for initial setup
Remote configuration and troubleshooting	Adjust settings, push firmware updates, and resolve issues from the Insight app or web portal — avoiding repeat site visits and protecting service margins for MSPs
Unified dashboard	Manage indoor and outdoor access points, switches, and routers from a single Insight view — no separate controller, no separate management platform
Mesh expansion	Link additional WBE700Y or indoor Insight APs to extend outdoor coverage incrementally. Automatic client steering ensures devices maintain optimal signal as they move.
1-year Insight subscription included	Every WBE700Y ships with a 1-year Insight subscription. Insight subscription — no hardware controller required

One platform. Every site. Indoor and outdoor.

NETGEAR Insight gives IT teams and MSPs a single dashboard for the full network — routing, switching, mobile hotspots, access points and security. The WBE700Y outdoor wireless access point ships with a 1-year Insight subscription included, with no hardware controller required.

Features and benefits

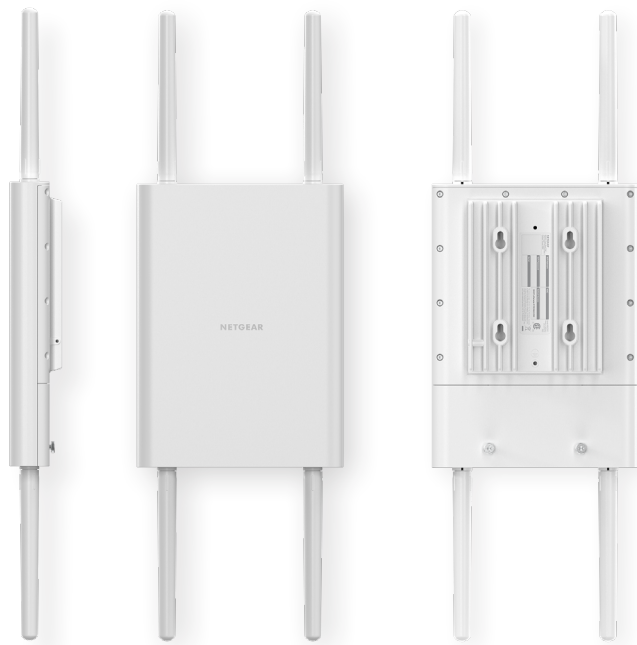
Features	Description
WiFi standard	IEEE 802.11be (WiFi 7), backward compatible with 802.11ax/ac/a/b/g/n
Dual-band radios	2x2 @ 2.4 GHz (688 Mbps) + 2x2 @ 5 GHz (4324 Mbps) = ~5 Gbps aggregate throughput
Multi-Link Operation (MLO)	Uses both 2.4 GHz and 5 GHz simultaneously — lower latency and higher reliability for latency-sensitive outdoor applications
4K-QAM modulation	Up to 20% throughput improvement over WiFi 6 by encoding more data per transmission
OFDMA and MU-MIMO	Serves multiple outdoor clients at the same time instead of in sequence — supports up to 75 concurrent clients
BSS coloring	Minimizes co-channel interference between adjacent outdoor access points
Target Wake Time (TWT)	Reduces power draw on compatible clients — extends battery life for outdoor IoT sensors and mobile devices
IP66 rating	Sealed against dust ingress and powerful water jets (IP66) — installs directly outdoors without a separate weatherproof enclosure
Operating temperature	-40°C to 55°C — reliable performance in extreme cold and extreme heat without additional thermal protection
Internal and external antennas	2x 2.4 GHz + 2x 5 GHz internal directional sector antennas (~8 dBi / ~12 dBi); 2x 2.4 GHz + 2x 5 GHz external RP-SMA ports for omnidirectional coverage (~4 dBi / ~5 dBi, antennas included)
Tx power	26/25 dBm per chain (2.4/5 GHz); 29/28 dBm combined — longer range in open outdoor environments
Dual 2.5 GbE ports	1x 2.5 GbE PoE+ (802.3at) uplink + 1x 2.5 GbE data port — high-speed connectivity over a single PoE+ cable
Up to 8 SSIDs	Create separate wireless networks for staff, guests, IoT, and building management — all with WPA3 encryption and VLAN isolation
NETGEAR Insight management	Cloud-based management, monitoring, and firmware updates — no local controller, no on-site IT required
Zero Touch Provisioning	Units join and self-configure automatically — reducing deployment time and eliminating the need for on-site expertise
Mesh expansion	Pairs with all NETGEAR Insight APs for coverage expansion into new areas without trenching or new cable runs
Backward compatibility	Supports 802.11ax/ac/a/b/g/n client devices — protects existing hardware investment while enabling full WiFi 7 for new clients

Sample application: outdoor campus

A school district, hospitality property, or enterprise campus needs reliable wireless coverage across outdoor spaces — courtyards, athletic facilities, parking structures, loading docks — without the cost and complexity of extensive outdoor infrastructure or dedicated on-site IT staff at every location. The WBE700Y is purpose-built for these environments.

Each WBE700Y mounts directly to a wall, pole, or ceiling surface and connects to a PoE+ switch over a single cable — no outlet at the mount point, no separate weatherproof box. Zero Touch Provisioning brings the unit online automatically. IT configures SSIDs, VLANs, and access policies from the Insight dashboard, and ongoing monitoring and troubleshooting happen remotely. Expand coverage by adding WBE700Y access points to the existing mesh network—no trenching or re-cabling required.

Campus outdoor coverage	WBE700Y pole- or wall-mounted with external omnidirectional antennas for broad coverage across open courtyards, athletic fields, or parking structures
Enclosed outdoor areas	WBE700Y with internal directional sector antennas (~8/12 dBi) for focused coverage across loading docks, covered walkways, or shaded seating areas
Guest and IoT segmentation	Dedicated SSIDs with VLAN isolation for guest WiFi and outdoor IoT sensors, keeping them off the staff network
MSP remote management	Full monitoring and troubleshooting via Insight from the MSP NOC — firmware updates, traffic dashboards, and alerts without a site visit
Coverage expansion	Additional WBE700Y units mesh into the existing network automatically — no reconfiguration, no new cabling required



Technical specifications

Features	
Wireless	
WiFi standard	IEEE 802.11be (WiFi 7); backward compatible with 802.11ax/ac/a/b/g/n
Frequency bands	2.4 GHz and 5 GHz (dual-band)
Radios	2.4 GHz: 2x2 (688 Mbps) 5 GHz: 2x2 (4324 Mbps)
Aggregate throughput	~5 Gbps (BE5000)
Channel widths	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80/160 MHz
WiFi technologies	MLO, 4K-QAM, OFDMA, MU-MIMO, BSS Coloring, Target Wake Time (TWT)
Tx power (per chain)	2.4 GHz: 26 dBm (e-FEM) 5 GHz: 25 dBm (e-FEM)
Tx power (combined)	2.4 GHz: 29 dBm 5 GHz: 28 dBm
Maximum concurrent clients (active)	75
Maximum associated clients	400
SSID wireless networks	8 per access point
Antenna	
Internal antennas	2× 2.4 GHz + 2× 5 GHz (directional sector, ~8 dBi / ~12 dBi, built-in Patch Array)
External antenna ports	2× 2.4 GHz + 2× 5 GHz (RP-SMA connectors, omnidirectional ~4 dBi / ~5 dBi, included in box)
Security	
WiFi security	WPA3 Personal, WPA3 Enterprise, WPA3/WPA2 Personal, WPA2 Personal, WPA2 Enterprise, WPA2/WPA Personal, Open Enhanced, Open
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
Provisioning	Zero Touch Provisioning — automatic join and self-configuration
Mesh	Yes — compatible with all NETGEAR Insight APs
Insight subscription included	1 year (IT SKU: WBE700Y) 4 years (AV SKU: WBE708Y)
Physical interfaces	
Ethernet port 1	1× 2.5 GbE PoE+ (IEEE 802.3at), RJ45 — power and data over one cable
Ethernet port 2	1× 2.5 GbE, RJ45 — data uplink or daisy-chain
Power input	PoE+ (IEEE 802.3at)
Indicators	LED status indicator
Reset	Hardware reset button

Technical specifications

Features	
Platform	
Chipset	Qualcomm IPQ5332-1 (Quad-core A53, 1.5 GHz) + QCN6432-1 + QCA8081-1 (×2)
Memory	DDR4 1 GB RAM + NAND Flash 512 MB
OS / firmware	Linux, NETGEAR internal firmware
Standards	
WiFi	IEEE 802.11be/ax/ac/a/b/g/n
PoE	IEEE 802.3at (PoE+)
Environmental protection	IP66 (IEC 60529)
Physical	
Dimensions (W × D × H)	250 × 182 × 46 mm
Mounting	Wall mount, pole mount, or ceiling mount (outdoor-rated)
Operating temperature	-40°C to 55°C (-40°F to 131°F)
Storage temperature	-40°C to 70°C
Operating humidity	5% to 95% RH, non-condensing
IP rating	IP66 — dust-tight and protected against powerful water jets

Antenna configuration

The WBE700Y supports both internal and external antennas — giving installers the flexibility to choose the optimal coverage pattern for each deployment. Internal antennas provide directional sector coverage (~8 dBi at 2.4 GHz, ~12 dBi at 5 GHz) for focused, high-gain outdoor deployments. The included external RP-SMA antennas provide omnidirectional coverage (~4/5 dBi).

Configuration	Band	Count	Connector / Notes
Internal	2.4 GHz	2	Built-in directional patch array — sector pattern (~8 dBi)
Internal	5 GHz	2	Built-in directional patch array — sector pattern (~12 dBi)
External	2.4 GHz	2	RP-SMA connectors — omnidirectional ~4 dBi (included in box)
External	5 GHz	2	RP-SMA connectors — omnidirectional ~5 dBi (included in box)

Transmit power summary

Band	Per chain (e-FEM)	Combined
2.4 GHz	26 dBm	29 dBm
5 GHz	25 dBm	28 dBm

Antenna selection guidance

Internal antennas are recommended for deployments that benefit from directional sector coverage. The high-gain internal patch array focuses the wireless signal across parking lots, athletic fields, and open plazas, delivering approximately 8 dBi of gain at 2.4 GHz and 12 dBi at 5 GHz.

For 360-degree coverage in enclosed courtyards, covered walkways, or similar spaces, use the included external RP-SMA omnidirectional antennas, which provide approximately 4 dBi of gain at 2.4 GHz and 5 dBi at 5 GHz.

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
Premium Support — Sprint	SPR-WBE700Y-12 (1yr) SPR-WBE700Y-36 (3yr) SPR-WBE700Y-60 (5yr)
Premium Support — Overdrive	DRV-WBE700Y-12 (1yr) DRV-WBE700Y-36 (3yr) DRV-WBE700Y-60 (5yr)
Support information	https://www.netgear.com/enterprise-support
Package contents	
WBE700Y	NETGEAR WBE700Y Outdoor Insight Managed WiFi 7 Access Point
Mounting hardware	Mounting plate and screws, four wall anchors and four screws, grounding screw and washer, two pole mounting straps
External antennas	Four omnidirectional RP-SMA antennas (2× 2.4 GHz, 2× 5 GHz)
Documentation	Installation Guide (Quick Start Guide)
Insight subscription	1-year Insight Cloud Management subscription (IT SKU)

Ordering information

SKU type / region	Part Number	Description
IT SKU — 1-year Insight subscription included		
North America	WBE700Y-100NAS	US / Canada
Asia Pacific	WBE700Y-100APS	APAC
Europe	WBE700Y-100EUS	EMEA (Canada included in country menu)

* 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 outdoor use within IP66 rating parameters.

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