

WBE708Y outdoor dual-band 2x2 PoE+ 2.5G Engage or Insight managed WiFi 7 access point

WiFi 7 that reaches beyond the cable. Extend your AV network to outdoor stages, plazas, and event grounds — managed from the same platform as your AV-over-IP switching.

The NETGEAR WBE708Y access point extends AV networks beyond the cable — bringing WiFi 7 coverage to venues where wired infrastructure can't reach. Multi-Link Operation (MLO) and 4K-QAM deliver the low-latency, high-throughput wireless that presentation endpoints, tablet controllers, operator panels, and IP camera monitoring require — while keeping AV traffic isolated from general IT and guest networks. Its IP66-rated enclosure installs directly outdoors without a separate weatherproof housing, and its -40°C to 55°C operating range covers extreme cold and heat in any climate.

The WBE708Y is managed through NETGEAR Engage — the same platform that already runs your AV-over-IP switching, so there is no separate wireless controller and no new tools to learn. For IT-focused deployments, NETGEAR Insight is available as an alternative. Either way, built-in mesh expands coverage across the venue without trenching or re-cabling.

The result is dependable WiFi 7 in the toughest outdoor conditions — coverage that reaches wherever the show, event, or venue happens, all under the same AV network you already manage.



Highlights

Outdoor-ready enclosure	IP66-rated for direct outdoor installation — eliminates the need for separate weatherproof housing and the labor 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
Managed from your AV platform	NETGEAR Engage manages the WBE708Y from the same software as your AV-over-IP switching — no separate wireless controller, no new tools. NETGEAR Insight is available as an alternative for IT-led deployments
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 WBE708Y delivers the complete IEEE 802.11be feature set — bringing next-generation, low-latency wireless performance to outdoor AV environments that were previously limited to WiFi 6 and older standards.

Multi-Link Operation (MLO)	Transmits across both 2.4 GHz and 5 GHz bands simultaneously, reducing latency for wireless presentation, tablet controllers, operator panels, and IP camera feeds 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 AV venues like plazas, amphitheatres, and event grounds
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 Engage and Insight cloud management

For AV integrators managing outdoor coverage across venues, NETGEAR Engage with the Align Controller — the same platform as your AV-over-IP switching — delivers unified wired and wireless control. NETGEAR Insight is available as an alternative for IT-focused deployments. Either path provides complete visibility and control without requiring a technician on-site.

Zero touch provisioning	Mount the WBE708Y, 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 Engage or Insight app or web portal — avoiding repeat site visits and protecting service margins for AV integrators and MSPs
Unified dashboard	Manage wireless access points alongside your AV-over-IP switching, routing, and other infrastructure from a single Engage or Insight view — no separate wireless controller, no separate management platform
Mesh expansion	Link additional WBE708Y or indoor Engage/Insight APs to extend outdoor coverage incrementally. Automatic client steering ensures presentation devices, tablets, and cameras maintain optimal signal as they move around the venue
4-year Insight subscription included	Every WBE708Y ships with a 4-year Insight subscription no — hardware required

One AV platform. Wired and wireless. Indoor and outdoor.

NETGEAR Engage with the Align Controller gives AV integrators, VARs, and MSPs a single dashboard for the full network — AV-over-IP switching, routing, access points, and security — with no separate wireless controller. Insight cloud management is available as an alternative for IT-led deployments. The WBE708Y outdoor wireless access point ships with a 4-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 — reduces congestion in high-density environments
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 Engage or Insight management	Cloud-based management, monitoring, and firmware updates via Engage with Align Controller (AV networks, same platform as AV-over-IP switching) or Insight (IT networks) — no local wireless controller, no on-site technician 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 Engage or 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

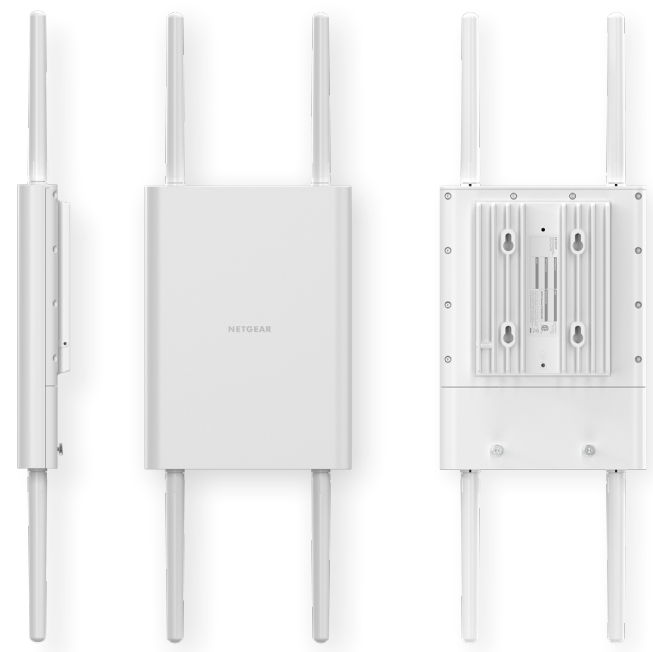
Sample application: outdoor campus deployment

A live-events venue, hospitality property, house of worship, or corporate campus needs to extend its AV network to outdoor stages, plazas, amphitheatres, and event grounds — supporting wireless presentation, tablet controllers, operator panels, and IP camera monitoring in spaces the cabled infrastructure can’t reach. The WBE708Y is designed for this deployment pattern.

Each WBE708Y 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. Integrators configure SSIDs, VLANs, and access policies from the Engage dashboard — the same platform managing the AV-over-IP switching — with ongoing monitoring and troubleshooting handled remotely. When coverage needs to expand, simply mount an additional WBE708Y, which automatically joins the existing mesh network.

Broad venue coverage	WBE708Y pole- or wall-mounted with external omnidirectional antennas for broad coverage across open stages, plazas, amphitheatres, or event grounds
Enclosed outdoor areas	WBE708Y with internal directional sector antennas (~8/12 dBi) for focused coverage across covered walkways, loading zones behind stages, or shaded seating and hospitality areas
Guest and IoT segmentation	Dedicated SSIDs with VLAN isolation keep wireless AV traffic — presentation, control, and camera feeds — isolated from staff, guest WiFi, and outdoor IoT sensors
AV integrator / MSP remote management	Full monitoring and troubleshooting via Engage or Insight from the integrator or MSP NOC — firmware updates, traffic dashboards, and alerts without a site visit
Coverage expansion	Additional WBE708Y 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)
Maximum theoretical 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 Engage with Align Controller (AV); NETGEAR Insight Cloud (IT, app + portal); standalone local GUI
Provisioning	Zero Touch Provisioning — automatic join and self-configuration
Mesh	Yes — compatible with all NETGEAR Engage or Insight managed APs
Insight subscription included	1 year (IT SKU: WBE708Y) 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 (x2)
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
Weight	1.67 Kg (AP only) 1.80 Kg (AP + antennas and mounting plate)
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 WBE708Y supports both internal and external antennas — a unique flexibility that allows installers to choose the right coverage pattern for each deployment scenario. Internal antennas deliver directional sector coverage (~8 dBi at 2.4 GHz, ~12 dBi at 5 GHz) for focused, high-gain outdoor deployment. The included external RP-SMA antennas provide omnidirectional coverage (~4/5 dBi) for broader all-round patterns.

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 AV coverage areas where directional sector coverage is appropriate — the high-gain internal Patch Array (~8 dBi at 2.4 GHz, ~12 dBi at 5 GHz) focuses signal across stages, plazas, and event grounds. Switch to the included external RP-SMA omnidirectional antennas (~4/5 dBi) for all-round coverage in enclosed courtyards, covered walkways, or backstage areas.

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-WBE708Y-12 (1yr) SPR-WBE708Y-36 (3yr) SPR-WBE708Y-60 (5yr)
Premium Support — Overdrive	DRV-WBE708Y-12 (1yr) DRV-WBE708Y-36 (3yr) DRV-WBE708Y-60 (5yr)
Support information	https://www.netgear.com/enterprise-support
Package contents	
WBE708Y	NETGEAR WBE708Y Outdoor Engage or 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	4-year Insight Cloud Management subscription

Ordering information

SKU type / region	Part Number	Description
IT SKU — 1-year Insight subscription included		
North America	WBE708Y-100NAS	US / Canada
Asia Pacific	WBE708Y-100APS	APAC
Europe	WBE708Y-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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