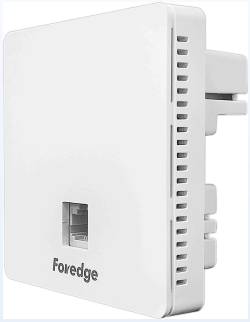
INDOOR WIRELESS ACCESS POINTS · CLOUD MANAGED

W63AP

Wi-Fi 6 AX3000 Dual-Radio In-Wall Access Point

Wi-Fi 6 · 802.11ax | 2.5 Gigabit Uplink | 86 × 86 mm Back Box | 802.3af PoE Powered



The W63AP is an in-wall Wi-Fi 6 access point that fits a standard 86 × 86 mm back box and protrudes just 14 mm from the wall. It gives each guest room, ward or dormitory its own dual-radio AX3000 access point and its own gigabit port on the face plate, fed by a single 802.3af PoE cable — with a 2.5 Gigabit uplink so the wired link never caps the radio.

AX3000	128+	2.5 GbE	2402 Mbps	< 15 W	14 mm
Combined peak rate	Wireless clients	Uplink port	5 GHz peak rate	802.3af PoE powered	Protrudes from wall

Key Capabilities

One Access Point per Room

An in-wall unit fits a standard 86 × 86 mm back box and protrudes only 14 mm. Each guest room, ward or dormitory gets its own radio and its own wired port, instead of sharing a corridor access point through two walls.

Wired Port on the Face

A gigabit LAN port on the front plate feeds a television, a desk or a door controller in the same room, so the in-room cable run serves both the wireless and the wired device.

Intelligent Local Forwarding

Latency-sensitive traffic is switched straight onto the wired network instead of tunnelling back through the controller — decided per SSID or per user VLAN, which removes the controller as a bottleneck.

Dual-Radio Wi-Fi 6, AX3000

Independent 2.4 GHz and 5 GHz radios run at the same time for a combined 3000 Mbps — 574 Mbps and 2402 Mbps — through two internal dual-band antennas, with 128 or more wireless clients supported.

WPA3 and Guest Authentication

WPA3-Personal, WPA3-Enterprise and WPA3-OWE alongside WPA2, WPA and WEP, plus web portal, MAC address, local account, voucher code and SMS authentication for guest networks.

Apollo Cloud and AC Management

Managed from the Foredge Apollo cloud platform or a Foredge access controller: configuration and backup, device status, network topology, load balancing, intelligent roaming and one-click optimisation.

Typical Applications

Hotel guest rooms | Student & staff accommodation | Hospital rooms | Serviced apartments | Offices with existing 86 mm back boxes

Built for Crowded Rooms

The four mechanisms that separate a Wi-Fi 6 access point from a Wi-Fi 5 one in a real, busy space.

OFDMA
Splits one channel into sub-channels so many clients are served concurrently instead of queuing.

Multicast to Unicast
Converts multicast video to unicast, ending the freezing caused by packet loss on wireless.

QoS and WMM
Per-WLAN, per-AP and per-client bandwidth limits with WMM priorities for voice and video.

Roaming and Balancing
Intelligent roaming between APs and load balancing across them under a Foredge AC.

Technical Specifications — Hardware

Product model	W63AP
Wireless standards	IEEE 802.11 a/b/g/n/ac/ax — Wi-Fi 6
2.4 GHz radio	2.400 – 2.484 GHz · 802.11 b/g/n/ax
5 GHz radio	5.150 – 5.850 GHz · 802.11 a/n/ac/ax
Peak data rate	574 Mbps (2.4 GHz) + 2402 Mbps (5 GHz) — 3000 Mbps combined
Antennas	2 × internal 2.4 GHz / 5 GHz dual-band antennas
Channel widths	HT20 · HT40 · HT80 · HT160
Memory	256 MB DDR · 128 MB SPI NAND flash
Maximum wireless clients	128 or more
Mounting	Standard 86 × 86 mm wall back box
WAN port	1 × 10/100/1000/2500 Mbps adaptive · 48 V PoE input
LAN port	1 × 10/100/1000 Mbps adaptive
Button	Reset — hold 6 to 10 seconds to restore factory defaults
Status indicator	SYS tri-colour LED — 5 GHz blue · 2.4 GHz green · start-up red
Power supply	IEEE 802.3af PoE
Maximum power consumption	< 15 W
Frequency deviation	± 20 ppm
EVM — 2.4 GHz	802.11b ≤ −10 dB · 802.11g ≤ −25 dB · 802.11n ≤ −28 dB · 802.11ax ≤ −35 dB
EVM — 5 GHz	802.11a ≤ −25 dB · 802.11n ≤ −28 dB · 802.11ac ≤ −32 dB · 802.11ax ≤ −35 dB
Dimensions (W×D×H)	86 × 86 × 44 mm — 14 mm protrudes from the wall
Weight	Approximately 0.215 kg
Operating temperature	−10 °C to 40 °C
Storage temperature	−40 °C to 70 °C
Humidity	5 % – 95 % RH, non-condensing

Coverage & Deployment

MODEL	2.4 GHZ 11AX	5 GHZ 11AX	2.4 GHZ 11N	5 GHZ 11N
W668OAP	1.00×	1.16×	1.35×	1.68×
W618HAP	1.00×	1.16×	1.35×	1.68×
W618AP	1.00×	1.00×	1.00×	1.00×
W63AP	0.69×	0.69×	0.80×	0.74×
W60HAP	0.69×	0.69×	0.80×	0.74×

Relative reach, not absolute distance. Each figure is the ratio of cell-edge range to the W618AP, derived from the manufacturer's published transmit power at MCS0 using a distance-power loss coefficient of 31 (ITU-R P.1238, office). Doubling the reach index quadruples the covered area. Actual range depends on wall construction, ceiling height, interference and the client device — Foredge publishes no absolute coverage figure.

Deployment Guidance

SCENARIO	RECOMMENDED MODEL	DENSITY
Outdoor area, plaza, car park	W668OAP (outdoor)	One per zone — external antennas
Hotel or hospital room	W63AP / W60HAP (in-wall)	One per room
Student or staff room	W63AP / W60HAP (in-wall)	One per room
Corridor, lobby, small office	W618AP (ceiling)	One per zone
Open floor, large hall, atrium	W618HAP (ceiling)	One per zone — fewer units for the same area
Room with a wired TV or desk	Any model	LAN port on the unit feeds the wired device

Technical Specifications — Software & Management

SSID	Multi-SSID, with authentication and encryption configured per SSID
Authentication	Web portal · MAC address · local account · voucher code · SMS · PSK
Encryption	WEP 64/128-bit · WPA · WPA2 · WPA3-Personal · WPA3-Enterprise · WPA3-OWE
Access control	Standard Network Access Control (NAC) — user access, authorisation, host compliance check, network behaviour monitoring, attack detection and prevention
QoS	Per-WLAN, per-AP and per-client bandwidth limiting · Wi-Fi Multimedia (WMM) service priorities · multicast-to-unicast conversion
Forwarding	Intelligent local forwarding, pre-configured per SSID or per user VLAN through the access controller
Client recognition	Automatic identification of iOS, Android and PC clients
NAT	Network address translation between the branch LAN and the internet
Roaming & balancing	Intelligent roaming between access points and load balancing under a Foredge AC
Management interfaces	Web interface on the AP and on the AC · Foredge Apollo cloud platform · Foredge access controller
Maintenance	Centralised firmware upgrade, configuration backup, device status query and topology diagrams through the AC or Apollo cloud

Ordering Information

MODEL	DESCRIPTION
W63AP	Wi-Fi 6 AX3000 dual-radio in-wall access point · 1 × 2.5 Gigabit WAN with 802.3af PoE + 1 × Gigabit LAN · 86 × 86 mm back box

Warranty & Support

Warranty	Two years from date of purchase
Stock & replacement	Held in Riyadh · replacement within 48 hours
Firmware	Units are supplied with the 2026 firmware that includes the Saudi Arabia regulatory region
Technical support	Pre-sales design, configuration assistance and firmware from the distributor
Country of manufacture	China — Shenzhen Fengrunda Technology Co., Ltd.

Radio Performance — Transmit Power

MODE	2.4 GHZ (DBM)	5 GHZ (DBM)
802.11b	18 @ 11M · 20 @ 1M	—
802.11a	—	15 @ 54M · 17 @ 6M
802.11g	16 @ 54M · 18 @ 6M	—
802.11n HT20	15 @ MCS7 · 17 @ MCS0	14 @ MCS7 · 16 @ MCS0
802.11n HT40	15 @ MCS7 · 17 @ MCS0	14 @ MCS7 · 16 @ MCS0
802.11ac HT20	—	13 @ MCS7 · 15 @ MCS0
802.11ac HT40	—	13 @ MCS7 · 15 @ MCS0
802.11ac HT80	—	13 @ MCS9 · 15 @ MCS0
802.11ax HT20	13 @ MCS11 · 15 @ MCS0	12 @ MCS11 · 14 @ MCS0
802.11ax HT40	13 @ MCS11 · 15 @ MCS0	12 @ MCS11 · 14 @ MCS0
802.11ax HT80	—	12 @ MCS11 · 14 @ MCS0
802.11ax HT160	—	12 @ MCS11 · 14 @ MCS0

All transmit-power figures are typical, ± 2 dBm.

Radio Performance — Receive Sensitivity

MODE	2.4 GHZ (DBM)	5 GHZ (DBM)
802.11b	−83 @ 11M · −90 @ 1M	—
802.11a	—	−70 @ 54M · −83 @ 6M
802.11g	−70 @ 54M · −84 @ 6M	—
802.11n HT20	−68 @ MCS7 · −83 @ MCS0	−67 @ MCS7 · −83 @ MCS0
802.11n HT40	−66 @ MCS7 · −83 @ MCS0	−64 @ MCS7 · −83 @ MCS0
802.11ac HT20	—	−58 @ MCS7 · −83 @ MCS0
802.11ac HT40	—	−57 @ MCS7 · −83 @ MCS0
802.11ac HT80	—	−56 @ MCS9 · −85 @ MCS0
802.11ax HT20	−56 @ MCS11 · −83 @ MCS0	−57 @ MCS11 · −83 @ MCS0
802.11ax HT40	−53 @ MCS11 · −83 @ MCS0	−56 @ MCS11 · −83 @ MCS0

Lower is better. The manufacturer publishes receive sensitivity up to 802.11ax HT40; figures for HT80 and HT160 are not stated for this model.

Front plate, side profile and rear cavity — 86 × 86 × 44 mm, 14 mm outside the wall

Panel Reference

WAN (rear)	2.5 Gigabit RJ45 — uplink, accepts 802.3af PoE
LAN (front plate)	Gigabit RJ45 — wired device in the same room
Reset	Hold 6 to 10 seconds to restore factory defaults
Status LED	SYS tri-colour — 5 GHz blue · 2.4 GHz green · start-up red
Mounting	Standard 86 × 86 mm back box; 14 mm protrudes from the wall face
Power	802.3af PoE on the WAN port

Related Foredge Access Points

MODEL	MOUNTING	WI-FI	UPLINK PORT	LAN PORT
W668OAP	Outdoor	Wi-Fi 6 AX3000	1 × GE WAN/LAN	1 × GE
W618HAP	Ceiling	Wi-Fi 6 AX3000	1 × 2.5G WAN	1 × GE
W618AP	Ceiling	Wi-Fi 6 AX3000	1 × GE WAN	1 × GE
W60HAP	In-wall	Wi-Fi 6 AX3000	1 × GE WAN	1 × GE

Also held in Riyadh stock. Ask us for the matching datasheet.

Notes

- The W63AP and the W60HAP share one enclosure and one product photograph. They are distinguished by the uplink port — 2.5 Gigabit against Gigabit.
- Operating temperature for the in-wall models is −10 °C to 40 °C, narrower than the ceiling models. Confirm the ambient temperature where the back box sits in an uncooled space.
- Specifications are taken from the manufacturer's published data and are subject to change without notice.
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