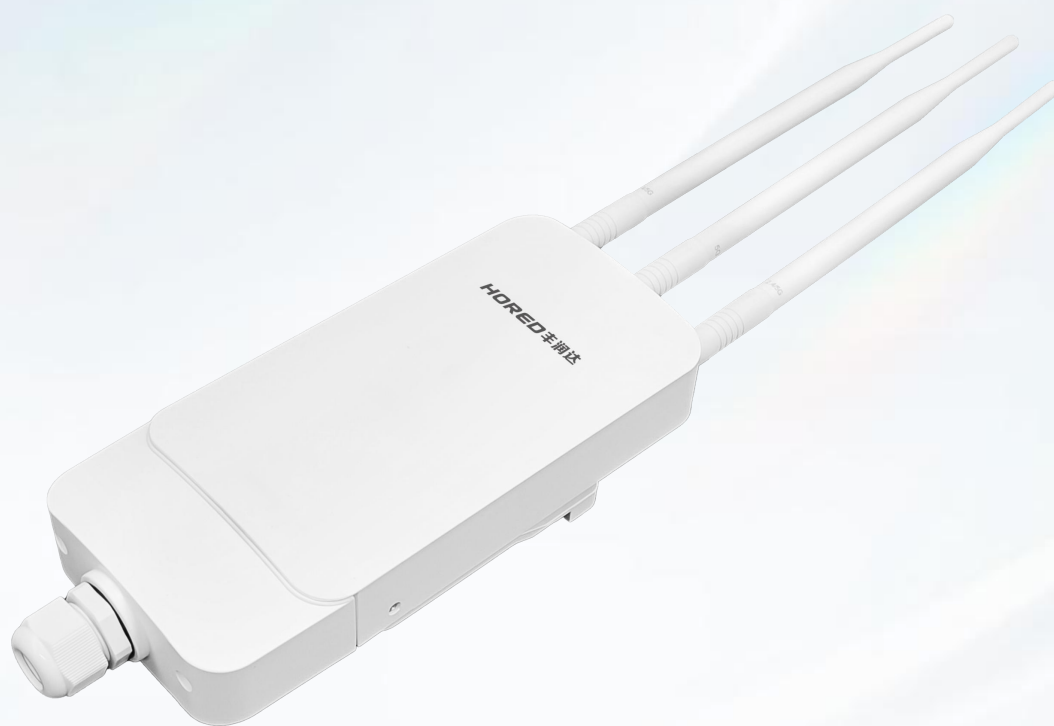


Foreedge

Wi-Fi 7 Dual-Radio Outdoor Access Point

W768OAP



Datasheet

01 Product Introduction

W768OAP is a Wi-Fi 7 dual-band outdoor wireless access point. With a maximum aggregate connection speed of up to 5100 Mbps over both bands, it is well-suited for building stable and high-speed wireless networks for users. Its enhanced wireless transmit power and improved receiver sensitivity also enable broader wireless coverage, better meeting the demands of multi-user access scenarios.

W768OAP features excellent environmental adaptability. The entire device is designed with a fully sealed, waterproof, dustproof, and moisture-resistant construction, meeting IP65 protection standards. It consistently delivers outstanding performance even in harsh conditions such as prolonged exposure to wind, strong sunlight, snow, or ice.

W768OAP supports both local management and centralized AC (Access Controller) management, allowing administrators to conveniently perform remote configuration, management, and status monitoring.

02 Product Pictures



03

Highlight Features

- **Wi-Fi 7 Compliant** – IEEE 802.11a/b/g/n/ac/ax/be
- **1 x 2.5G Ethernet Port**, 1 x 2.5G SFP Fiber Port
- **2.5G Uplink Port** Breaks Through the Gigabit Uplink Bottleneck
- **160MHz Ultra-Wide Bandwidth**, 5100M-Class Wireless Speed for Seamless 4K HD Video
- **Supports MLO Technology** – Enables dual-band aggregation for significantly improved effective data throughput; automatically switches to another frequency band when interference or high load occurs, enhancing anti-interference capability, reducing latency, and optimizing the online experience.
- **MU-MIMO (Multi-User Multiple Input Multiple Output) Technology** – Allows simultaneous transmission for multiple terminals over the same channel, delivering smooth performance without network contention.
- **OFDMA (Orthogonal Frequency Division Multiple Access) Technology** – Transmits multiple user data simultaneously in each frame, greatly improving Wi-Fi transmission efficiency.
- **Standard IEEE 802.3af/at PoE** – Powered and connected via a single network cable.
- **IP65 Waterproof and Dustproof Rating**, Industrial-Grade Wide-Temperature Hardware Design – Withstands rain, snow, wind, and frost.
- **Multiple Management Modes** – Suitable for a wide range of application scenarios.

Hardware Features

Product dimensions	253mm × 102mm × 60mm
Installation method	Guy pole installation (Guy pole diameter: 24 - 30mm)
Wireless protocol	IEEE 802.11a/b/g/n/ac/ax/be
Physical port	1 WAN port with 10/100/1000/2500 Mbps speeds (Auto MDI/MDIX) 1 SFP interface with 100/1000/2500 Mbps speeds (It is recommended to use industrial-grade optical modules with working temperature support above 85°C)
Physical button	Reset Button
Status indicator	A multi-color status lamp
Power input	IEEE802.3af/at (48V POE) DC 12V/1.5A (Outer diameter: 5.5mm, internal diameter: 2.1mm)
Maximum power consumption	TBD
2.4G operating frequency	2412~2472MHz(Channels 1 to 13)
5G operating frequency	5180 - 5350 MHz (Channels 36 - 64) 5490 MHz - 5730 MHz (Channels 100 - 144) 5735 MHz - 5835 MHz (Channels 149 - 165)
Wireless rate	2.4G: 688Mbps 5G: 4323Mbps
Spatial stream	2.4G: 2 streams, 2 × 2 MU-MIMO 5G: 3 streams, 3 × 3 MU-MIMO
Maximum transmission power	2.4G: 22dBm ± 2dB 5G: 23dBm ± 2dB (The actual transmission power varies according to the regulations of different countries and regions.)
Antenna gain	2.4G: 5dBi 2.4G: 5dBi

Operating Environment

Electrostatic standard	Air: 8kV, Contact: 6kV
Port lightning protection	$\pm 2\text{kV}$
Working temperature	$-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$
Working humidity	10% to 90% RH (no condensation)
Storage temperature	$-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$
Storage humidity	5% to 90% RH (no condensation)

Software Features

Work mode	AP model
Status Monitoring	Equipment information monitoring Network connection status monitoring
Network Settings	Supports dual protocol stack of IPv4 and IPv6 Supports static IP and DHCP access methods Supports hardware accelerated forwarding Supports static routing Supports dynamic and static DHCP Server
Radio Frequency Settings	Supports switching between different countries/regions Supports modification of radio frequency working mode Supports automatic and manual setting of channels Supports manual setting of bandwidth Supports setting of the minimum connection signal for terminals Supports multi-level power adjustment for wireless transmission power Supports connection and exclusion of users with weak signals

Software Features

Radio frequency settings	Support Short-GI Support WMM Support DTIM Support LDPC Support STBC Support AP isolation
Wireless efficiency technology	MLO MRU Preamble Puncture OFDMA MU-MIMO BSS Color
Wi-Fi settings	Supports up to 8 SSIDs to work simultaneously Supports dual-band integration Supports WPA-PSK, WPA2-PSK, and WPA3-PSK authentication encryption Supports SSID VLAN Supports hiding SSID Supports wireless black and white list Supports guest network Supports SSID isolation Supports TWT terminal wake-up
Terminal monitoring	Support monitoring of the IP, MAC address and online time of connected terminals Support setting up speed limits for both uplink and downlink for connected terminals
Security settings	Supports Internet access filtering based on IP, MAC, port, and domain name Supports application access filtering based on users and time Supports port forwarding
System Management	Support NTP time synchronization Support system operation logs and kernel logs Support configuration backup Support factory reset recovery Support system restart Support Apollo cloud platform and mobile APP management
System upgrade	Local upgrade Online upgrade
System language	EN CN