



High Performance Dual-Band Wi-Fi 6 | Outdoor Wireless AP WF-660AGG

Product Datasheet : Version 1.0



Product Overview

WF-660AG is a dual-band 2x2 MU-MIMO 802.11ax outdoor Wi-Fi AP specifically designed for high-density deployments in outdoor locations that demand exceptional performance. With support for 802.11ax 2.4G/5G Wi-Fi access, WF-660A offers aggregated data rates of up to 1,774Gbps. This enables you to establish a high-speed and stable wireless network.

Built with enhanced transmission power and high-gain antenna, the WF-660AG delivers the high throughput and reliable coverage required to keep everyone connected. Its compatibility with most wireless terminals makes it easy to establish a high-capacity Wi-Fi network, catering to diverse connectivity needs.

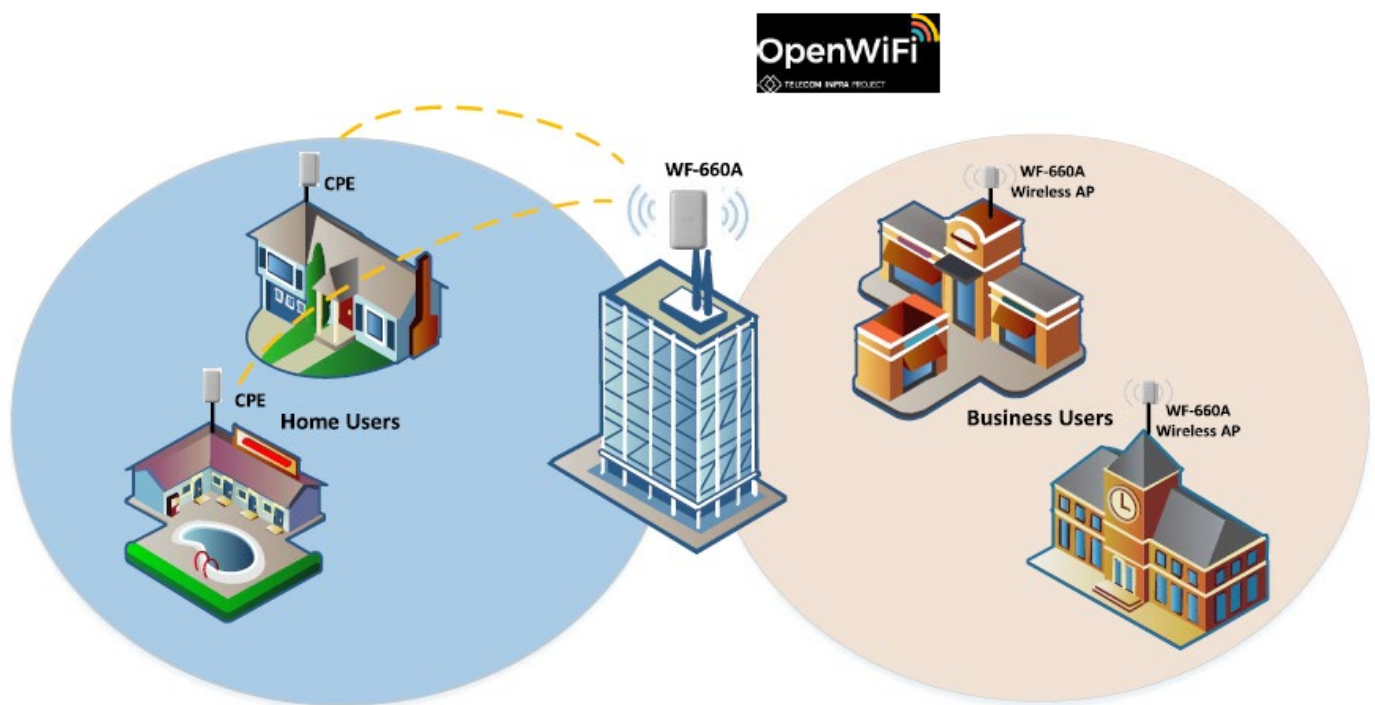
Furthermore, this Wi-Fi AP features the Bluetooth 5.0 and GPS module, for convenient device deployment and management by users.

The universal mount supports both wall and pole installation. It allows for adjusting the installation angle based on the actual usage environment to achieve optimal coverage effectiveness.

For developers, the WF-660AG offers support for Qualcomm's QSDK and OpenWiFi development platforms. This opens the door to streamlined software development, thanks to standardized interfaces, well-defined APIs, and pre-integrated stacks, reducing complexities and enhancing reliability. Additionally, OpenWiFi's active community support provides valuable troubleshooting assistance, ensuring a future-proof and cost-efficient solution for innovative Wi-Fi applications.

Key Features

- Support pole and wall mounting
- Supports 2.4G 2x2/ 40MHz Wi-Fi (802.11b/g/n/ac/ ax), up to 574Mbps link rate
- Supports 5G 2x2/ 80MHz Wi-Fi (802.11a/n/ac/ ax), up to 1.2Gbps link rate
- Supports BLE 5.0
- Supports GPS
- 2 x Dual-band Integrated 120° directional antennas (5dBi@2.4G, 7dBi @5GHz)
- 1 x Integrated Bluetooth antenna
- 1 x 2.5GE WAN, with 802.3at PoE (PD)
- 1x Reset Button
- 1x RGB LEDs for visual indication
- TIP OpenWiFi development platform



Hardware Specifications

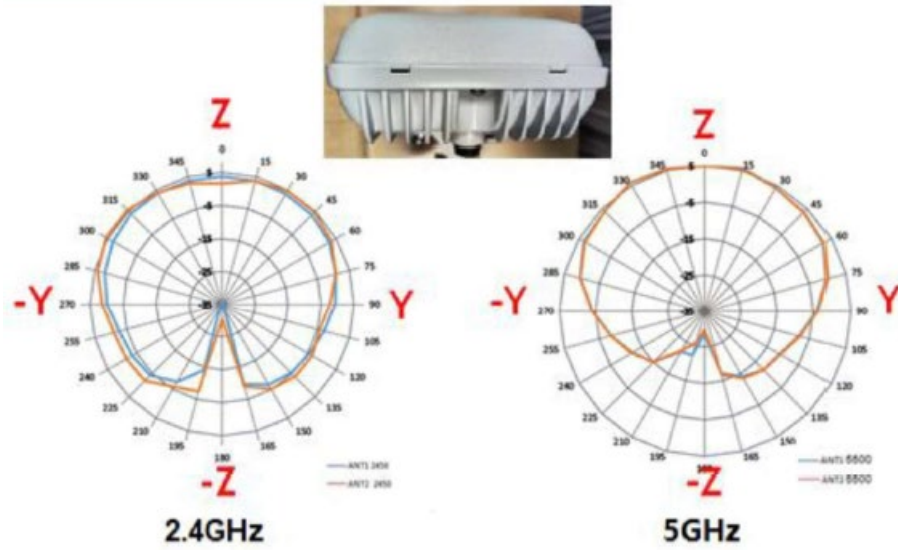
Item	WF-660AG
Dimension (W x D x H)	260mm x 140mm x 71mm, without bracket
Weight	1500g, without bracket
Installation	Pole and wall mounting

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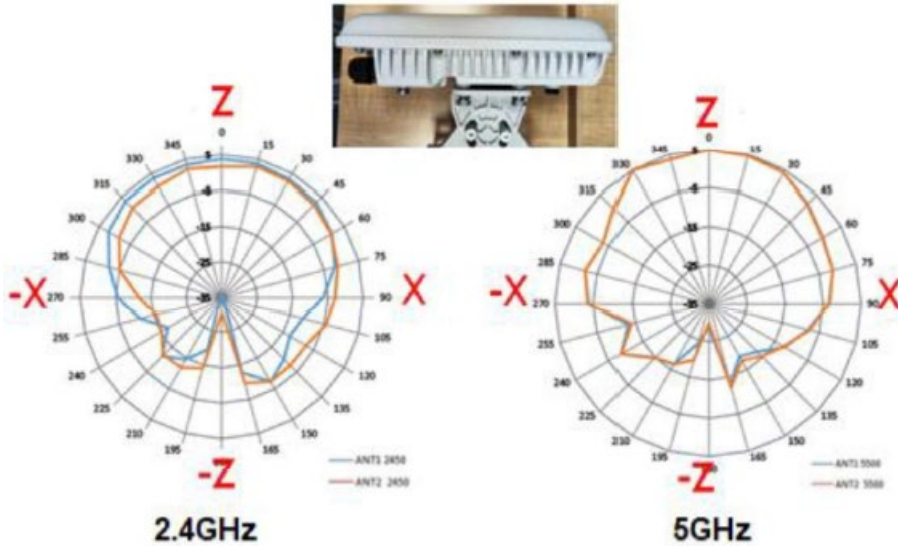
LEDs	1 x RGB LED (Software definition)
Interface	1 x 2.5GE WAN with 802.3at PoE(PD) 1 x Reset button
Input Voltage	802.3at PoE (PD) ** 802.3af PoE (PD), with restricted functions
Power consumption	< 15W
Environmental Specification	
Temperature	Operation: -40°C +65°C Storage: -40°C +85°C
Operating Humidity	5% 95% (non-condensing)
Elevations	86kPa 106kPa altitude
Dustproof and Waterproof	IP67
Compliance	• ETL (NRTL Listed UL 62368-1 (UA &CA)) • CB with IEC/EN 62368-1 IEC 60950-22(Basic safety certificate for worldwide marketing) • GB 9254-2008 (Class B of product) EN 55032, EN55035, EN61000-4-3 Level 4; EN61000-4-2, FCC Part 15B • FCC DOC Part 15 Class B(US) • FCC Part 15 Subpart C 15.247 (US) • FCC Part 15 Subpart E 15.407 (US)
Reliability	
MTBF	> 300,000 Hours Telcordia SR-332: Reliability Prediction Procedures for Electronic Equipment, Issue 3, Method 1, Case 3. This is based on a GB/GC (Ground Benign, Controlled) environment with a steady state condition at a 25°C ambient temperature. It does not account for software failures
AFR	AFR (Annualized Failure Rate) < 1.5% (in continuous operation)
Chipset	
SoC	Qualcomm chipset (IPQ6028)
Flash	eMMC5.0 4GB
DDR	1GB DDR4 memory

Item	WF-660AG														
Wi-Fi Interface															
Operating frequency	2.4G radio: 2.4000GHz~2.4835GHz														
	5G radio: 5.150~5.250,5.250~5.350,5.470~5.725, 5.725~5.850 GHz														
Maximum Transmit power (per chain)	2.4G radio: 24dBm@MCS0; 21dBm@MCS7; 20dBm@MCS9; 19dBm@MCS11														
	5G radio: 24dBm@MCS0; 21dBm@MCS7; 20dBm@MCS9; 18dBm@MCS11														
Data Rate	802.11b: 1, 2, 5.5, and 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54Mb/s 802.11n: MCS0~MCS7 802.11ac: MCS0 ~ MCS9 802.11ax: MSC0 ~ MCS11														
Max EIRP	2.4GHz: 32dBm 5GHz: 34dBm														
Receive Sensitivity	802.11g: -90dBm@6Mbps -74dBm@54Mbps														
	802.11n: <table><tr><td></td><td>HT20</td><td>HT40</td></tr><tr><td>MCS0/8/16</td><td>-90dBm</td><td>-87dBm</td></tr><tr><td>MCS7/15</td><td>-71dBm</td><td>-68dBm</td></tr></table>				HT20	HT40	MCS0/8/16	-90dBm	-87dBm	MCS7/15	-71dBm	-68dBm			
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	802.11ac: <table><tr><td></td><td>VHT20</td><td>VHT40</td><td>VHT80</td></tr><tr><td>MCS0</td><td>-90dBm</td><td>-87dBm</td><td>-84dBm</td></tr><tr><td>MCS8</td><td>-67dBm</td><td>-61dBm</td><td>-58dBm</td></tr></table>				VHT20	VHT40	VHT80	MCS0	-90dBm	-87dBm	-84dBm	MCS8	-67dBm	-61dBm	-58dBm
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Antenna Pattern (Directional Antennas)	Frequency(MHz)	2400~2500	5150~5850												
	Polarization	Horizontal/Vertical	Horizontal/Vertical												
	Peak Gain(dBi)	5 dBi	7dBi												
	Efficiency (Avg)	>70%	>75%												
	Return Loss	10dB	10dB												
	Isolation	20dB	20dB												
	H-Beam Width	120 degree	120 degree												
V-Beam Width	60 degree	60 degree													

Horizontal planes (top view, pole mounting)



Vertical planes (side view, pole mounting)





Contact Information

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