

High-end Tri-Band WiFi 7 Outdoor Wireless AP WF-672A Product Datasheet

VERSION 4.0

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www.actiontec.com

■ Overview

WF-672A is a high-end Wi-Fi 7, tri-band concurrent outdoor AP that delivers 6 spatial streams (2x2 in 2.4GHz/5GHz/6GHz or, in dual-band mode, 2x2 in 2.4GHz and 4x4 in 5GHz). It is specifically designed for high-density deployments in outdoor locations that demand exceptional performance. It supports advanced Wi-Fi7 technologies such as multi-link operation (MLO), up to 320MHz bandwidth for 6GHz radio, OFDMA, MU-MIMO, and 4096-QAM, all within the 802.11be protocol. With up to 9300Mbps aggregated data rates, WF-672A enables the establishment of a high-speed and stable wireless network. Whether you use a phone, tablet, or laptop, seamless internet access is available from anywhere within the coverage area.

Built with enhanced transmission power and high-gain antenna, the WF-672A delivers the high throughput and reliable coverage required to keep everyone connected. WF-672A has the internal directional antenna. And there is another variant WF-672E can support the external OMNI antenna. It is flexible to meet the different application scenarios of users. Its compatibility with most wireless terminals makes it easy to establish a high-capacity Wi-Fi network, catering to diverse connectivity needs.

After the 6GHz AFC function is enabled, WF-672A can work with the maximize transmission power and data speeds in the 6GHz band, while minimizing the channel interference.

Furthermore, this Wi-Fi AP features the Bluetooth 5.0 and GPS, 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-672A 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

- Supports pole and wall mounting
- Access Points with tri-band 2x2:2 concurrent radios:
 - 2.4G 2x2 Wi-Fi (802.11b/g/n/ax/be), 20/ 40MHz, up to 688Mbps
 - 5G 2x2 Wi-Fi (802.11a/n/ac/ax/be), 20/ 40/ 80/ 160MHz, up to 2.882Gbps
 - 6G 2x2 Wi-Fi (802.11ax/be), 20/ 40/ 80/ 160/ 320MHz, up to 5.764Gbps
- Radio Configuration
 - Tri-band mode, 2x2 in 2.4GHz/ 5GHz/6GHz
 - Dual-band mode, 2x2 in 2.4GHz and 4x4 in 5GHz
 - Software configurable of Tri-band and Dual-band
- Antennas
 - Internal tri-band directional antenna
- 1x RJ45 2.5GE Ethernet port
- 1x 10G SFP+
- BLE 5.0
- GPS
- Three-Axis, digital magnetometer (optional)
- Pressure sensor (optional)
- Temperature sensor (optional)
- TPM (optional)
- 1x Factory default reset button
- 1x USB Type-C console port
- 1x RGB LEDs for visual indication
- IP67
- 1x AC power supply
- TIP OpenWiFi compatible





■ Specifications

Item	WF-672A
Dimension (W x D x H)	270mm x 153mm x 85mm, without bracket
Weight	1600g, without bracket
Installation	Pole mounting or wall mounting
LEDs	1 x RGB (Software-defined)
Interface	• 1x 2.5GE Ethernet Port, with 802.3 bt PoE(PD) ** 802.3at PoE, with restricted features • 1x 10G SPF+ • 1x 12V/2.5A AC power input • 1x Factory reset button • 1x USB Type-C console port
Power Input	• 802.3bt PoE (PD) ** 802.3bt PoE supports the full feature ** 802.3at PoE, supports limited feature, with 2.5G Eth Port or SFP+ • 12V/2.5A AC power input
Max Power consumption	< 30W
Environmental Specification	
Temperature	Operation: -40°C ~ +65°C Storage: -40°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)
Elevations	2km
Dustproof and Waterproof	IP67
Compliance	• ETL Listed (NRTL): Conforms to UL 62368-1 and CSA C22.2 No. 62368- 1

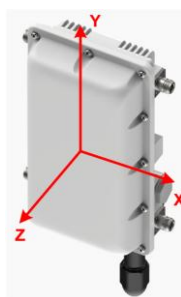
Item	WF-672A
	• CB with IEC/EN 62368-1 IEC 60950-22 (Basic safety certificate for worldwide marketing) • GB 9254 -2008(Class B of Product) EN55032, EN55035, EN61000-4-3 Level 4; EN61000-4-2, FCC Part 15B • FCC DOC Part 15 Class B (US) • FCC Part 15 Subpart C 15.247 (US) • FCC Part 15 Subpart E 15.407 (US)
Reliability	
AFR	AFR (Annualized Failure Rate) < 1.5% (in continuous operation)
Chipset	
SoC	Qualcomm IPQ5332
Flash	eMMC5.0 4GB, 16MB Nor Flash reserved
DDR	1GB 16bit DDR4 memory
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
	6G radio: 5.945~7.125GHz (Closed via software)
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 802.11be: MSC0 ~ MCS13
Peak Transmit Power (Max EIRP)	2.4GHz: 32dBm 5GHz: 32dBm 6GHz: 32dBm * Note: Values represent the combined output power of the AP radios and the antenna gain. Maximum EIRP may vary on regional regulatory limits, such as those defined by the FCC.

Item

WF-672A

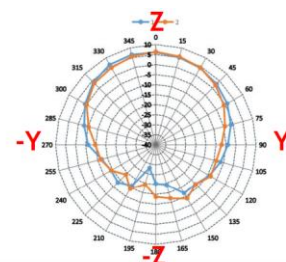
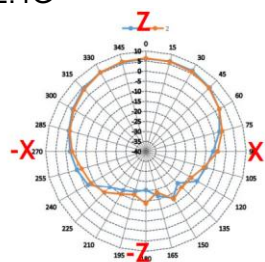
Internal directional antenna

Antenna-Directional	2.4G	5G	6G	BLE
Frequency (MHz)	2.4G	5G	6G	2.4
Peak Aggregated Realized Gain (dBi)	>6	>9	>9	>3
H-Beam Width (3dB)	90°	90°	90°	
H-Beam Width (6dB)	120°	120°	120°	
V-Beam Width	30°	30°	30°	

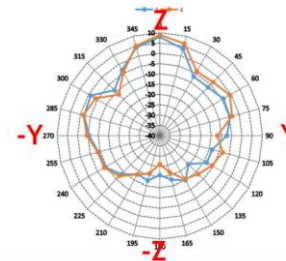
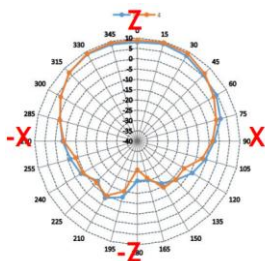


Antenna Pattern

2.4G



5G



Item	WF-672A
	6G 

■ **Federal Communications Commission (FCC) Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 40 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

■ Contact Information

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