

Tri-Band Wi-Fi7 Outdoor Mesh AP WF-670G

Product Datasheet

VERSION1.1

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www.actiontec.com

■ Overview

The tri-band Wi-Fi 7 WF-670G is designed to provide Wi-Fi network connectivity for homes and businesses leveraging the latest 802.11be chipset design. The WF-670G supports EasyMesh R4, which provides a self-configuring, self-healing and self-managing Wi-Fi network experience. It dynamically selects the most reliable Wi-Fi paths and facilitates fast and seamless handoffs for users.

WF-670G is one of the top performing Wi-Fi 7 outdoor mesh AP on the market, supporting 802.11be across all Wi-Fi radio bands.

- 2.4G radio supports 2x2 802.11b/g/n/ax/be MIMO.
- 5G radio supports 2x2 802.11a/n/ac/ax/be MIMO.
- 6G radio supports 2x2 802.11a/ax/be MIMO

WF-670G can meet the requirements for high-speed real-time traffic and high-bandwidth entertainment, including 4K video, video game streaming and VR.

The integration of Optim Cloud significantly enhances the user experience for both network operators and end-users by providing efficient device management and advanced control capabilities.

Designed for outdoor deployments, the WF-670G used a standard PoE power supply and reserve the DC jack for DC power supply.



■ Key Features and Application Scenario

- Outdoor AP support Wall mounting and Pole mounting
- 2.4GHz 40MHz 2x2 802.11b/g/n/ax/be
- 5GHz 160MHz 2x2 802.11a/n/ac/ax/be
- 6GHz 320MHz 2x2 802.11a/ax/be
- WPA/WPA2-PSK(AES)/WPA3
- Integrated Wi-Fi antennas
- 1 x 2.5GbE LAN with 802.3at PoE (PD)
- 1 x Status LED
- BLE 5.0
- 1 x WPS button
- 1 x Reset button
- 1 x DC jack
- Supports TR-069 management
- Supports EasyMesh R4

■ Hardware Specification

Dimension	281mm x 68mm x 122.4mm
Installation	Wall mounting and Pole mounting
LEDs	1x Status LED
Interface	1 x 2.5GbE LAN with 802.3at PoE (PD)
	1 x Rest
	1 x WPS
	1 x DC jack
SoC	Qualcomm
Flash	256MB SPI NAND Flash
DDR	1GB DDR4 RAM
BLE	BLE 5.0
Input Voltage	+12V/2A
Power consumption	< 20W
Operating Temperature	Operation: -20°C ~ +55°C, Storage: -40°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)
Elevations	86kPa ~ 106kPa altitude
Dustproof and Waterproof	IP65
Compliance	IEC 62368-1:2014 (Second Edition)+A11: 2017
	UL 62368-1, 2nd Ed, 2014-12-01 (Audio/video, Information and Communication Technology Equipment Part 1: Safety Requirements)
	CAN/CSA C22.2 No. 62368-1-14, 2nd Ed (Audio/Video, Information and Communication Technology Equipment Part 1: Safety requirements)
	FCC
	ETL
	RoHS 2011/65/EU Compliant (RoHS 10 Compliant, No Pb)
MTBF	> 300,000 Hours
	Telcordia SR-332, Reliability Prediction Procedures for Electronic Equipment, Issue 3, Method 1, Case 3, GB/GC (Ground Benign, Controlled) environment, 25°C ambient temperature. Steady state, not including software failure.

■ Wi-Fi Specification

Operating frequency	2.4G radio: 2.4000GHz~2.4835GHz
	5G radio: 5.150~5.250,5.250~5.350,5.470~5.725, 5.725~5.850GHz
	6G radio: 5.945 ~ 7.125GHz
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~MCS15
	802.11ac: MCS0 ~ MCS9
	802.11ax: MCS0~MCS11
	802.11be: MCS0~MCS13
Receive Sensitivity	2.4 GHz:
	11ax HE20 MCS0:-92dBm, 11ax HE20 MCS11:-64dBm
	11ax HE40 MCS0:-89dBm, 11ax HE40 MCS11:-61dBm
	11be EHT20 MCS0:-92dBm, 11be EHT20 MCS13:-57dBm
	11be EHT40 MCS0:-89dBm, 11be EHT40 MCS13:-54dBm
	5 GHz:
	11ax HE20 MCS0:-91dBm, 11ax HE20 MCS11:-63dBm
	11ax HE40 MCS0:-88dBm, 11ax HE40 MCS11:-60dBm
	11ax HE80 MCS0:-85dBm, 11ax HE80 MCS11:-58dBm
	11ax HE160 MCS0:-83dBm, 11ax HE160 MCS11:-55dBm
	11be EHT20 MCS13:-57dBm, 11be EHT40 MCS13:-54dBm
	11be EHT80 MCS13:-51dBm, 11 be EHT160 MCS13:-48dBm
	6 GHz:
	11ax HE20 MCS0:-91dBm, 11ax HE20 MCS11:-62dBm
	11ax HE40 MCS0:-88dBm, 11ax HE40 MCS11:-59dBm
	11ax HE80 MCS0:-85dBm, 11ax HE80 MCS11:-57dBm
	11ax HE160 MCS0:-82dBm, 11ax HE160 MCS11:-54dBm
	11be EHT20 MCS13:-57dBm, 11be EHT40 MCS13:-54dBm
	11be EHT80 MCS13:-51dBm, 11be EHT160 MCS13:-48dBm
	11be EHT320 MCS0:-79dBm, 11be EHT320 MCS13:-45dB

Software Features

Category	Features
Network	Bridge Mode - DHCP Client - Backhaul with 2.4G/5G Wi-Fi/Ethernet
	Router Mode - IPv4 - IPv6 - NAT - WAN DHCP client - LAN DHCP server - DNS server - DHCP reservation - uPNP - Port forwarding - Backhaul with Ethernet
	IGMP Snooping
Wi-Fi	2.4GHz bandwidth: 20/40MHz, 5GHz bandwidth: 20/40/80/160MHz 6GHz bandwidth: 20/40/80/160/320MHz
	802.11 k/v/r
	Band steering
	Channel scan
	DFS
	SSID broadcast
	WPA/WPA2/WPA3 PSK security
TR-069 Management	Network topology display - Device connected - Client accessed - Channel - Backhaul type
	Network optimize
	WPA/WPA2/WPA3 PSK security
	Freeze client
	Device information - Status - Online time - IP address - MAC address - Firmware version - Channel

	Client information - Status - Online time - IP address - MAC address - Channel
	Network statistic chart - Bandwidth usage - RSSI - Channel congestion - Event
	Utilities - Reboot device - Upgrade remotely - Speed Test

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 46 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft.

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems



■ Contact Information

Actiontec Electronics, Inc.

2445 Augustine Dr., 6th FL.

Santa Clara, CA 95054

Tel: +1(408) 837-4800

Email: broadband-sales@actiontec.com