



Dual-band Wi-Fi7 Router | Extender WF-709F

Product Datasheet : Version 1.0



Product Overview

The Dual-band Wi-Fi 7 WF-709F is designed to provide Wi-Fi network connectivity for homes and business based on the latest 802.11be chipset design. With the WF-709F, the user can utilize EasyMesh R4, which provides a self-configuring, self-healing and self-managing Wi-Fi network. It dynamically selects the most reliable Wi-Fi path and enables fast and seamless handoffs for end-users.

WF-709F is one of the best performing WiFi 7 router in the market. It supports 802.11be on all Wi-Fi radio bands.

- 2.4G radio supports 2x2 802, 11b/g/n/ac/ax/be MIMO
- 5G radio supports 4x4 802, 11a/n/ac/ax/be MIMO

WF-709F can meet the requirements for high-speed real-time traffic and high-bandwidth entertainment, such as 4K video, video game streaming and VR.

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

With global deployments in mind, the WF-709F utilized standard AC/DC adapter, allowing easy adaptation everywhere in every country.

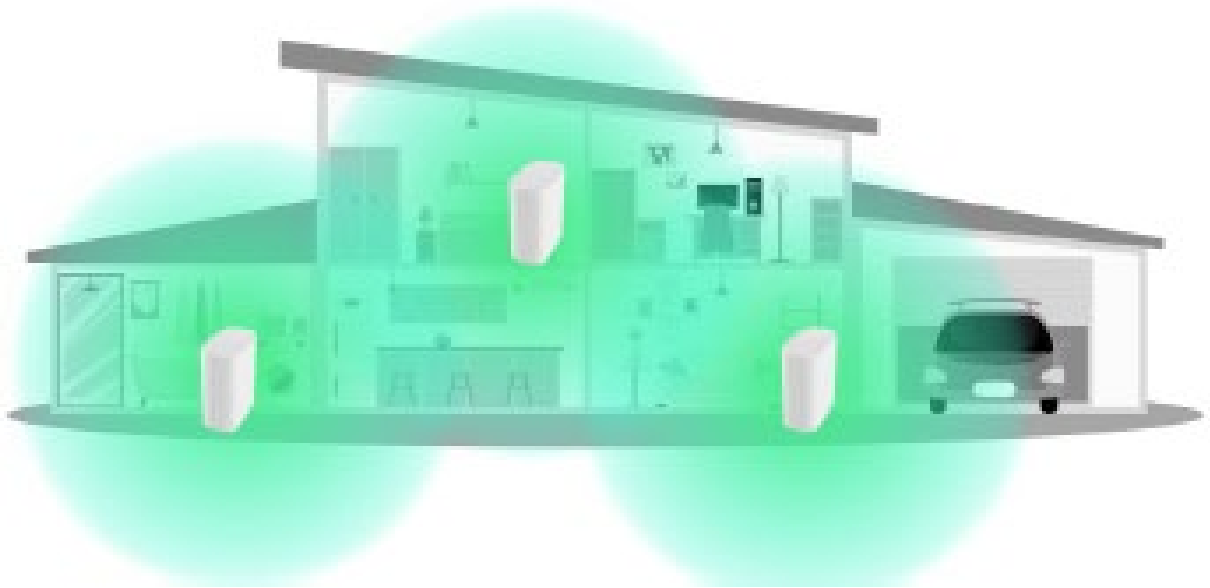


Key Features

- Desktop placement / Wall-mounted
- 2.4GHz 40MHz 2x2 802.11b/g/n/ac/ax/be
- 5GHz 160MHz 4x4 802.11a/n/ac/ax/be
- WPA/WPA2-PSK (AES) / WPA3
- Integrated Wi-Fi antennas
- 1 x 2.5GbE WAN
- 3 x GbE LAN
- 3 x Status LEDs (multi-color)
- 1 x WPS button
- 1 x Reset button
- 1 x DC jack
- Supports router/extender functions
- Supports TR-069 management
- Supports EasyMesh R4

Application Scenario

- Three WF-709Fs can form a Wi-Fi mesh network. One configured as the Gateway and the other two configured as the Wi-Fi Extender:



Specifications

Item	WF-709F
System Hardware Spec	
Dimension	158mm x 175mm x 90mm
Installation	Desktop placement
LEDs	3x Status LEDs (front panel)
Interface	1 x 2.5GbE WAN 3 x GbE LAN 1 x WPS 1 x Reset 1 x DC jack
SoC	Qualcomm
Flash	256 MB SPI NAND Flash
DDR	512MB DDR4 RAM
Input Voltage	+12V/1.5A
Power consumption	< 17W
Operating Temperature	Operation: 0°C ~ +40°C Storage: -40°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)
Elevations	86kPa ~ 106kPa altitude
Dustproof and Waterproof	IP20
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)

Item	WF-709F
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.
AFR	AFR (Annualized Failure Rate) < 1.5% (in continuous operation)
Wi-Fi Spec	
Operating frequency	2.4G radio: 2.4000GHz~2.4835GHz 5G radio: 5.150~5.250, 5.250~5.350, 5.470~5.725, 5.725~5.885 GHz
Maximum Transmit power (per chain)	2.4G radio: 22dBm@MCS0 5G radio: 22dBm@MCS0; 19dBm@MCS13
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
Category	Features
Network	Router Mode - IPv4 - IPv6 - NAT - WAN DHCP client - LAN DHCP server - DNS server - DHCP reservation - uPNP - Port forwarding - Backhaul with Ethernet IGMP Snooping DHCP Client Backhaul with 2.4G/5G Wi-Fi/Ethernet

Item	WF-709F
Wi-Fi	2.4GHz bandwidth: 20/40MHz, 5GHz bandwidth: 20/40/80/160MHz
	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



Contact Information

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