

HomeMesh[™] Wireless WF-808 Product Datasheet

VERSION1.0

December, 2019

Partnership for the Next Generation Broadband Solution

www.cigtech.com

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Overview

WF-808 product is designed to extend Wi-Fi network connectivity at home. With WF-808, the customer can set up a smart Wi-Fi home network, which provides self-configuring, self-healing and self-managing,. It dynamically selects the most reliable Wi-Fi path and enables fast and seamless handoffs for end-users.

WF-808 supports dual-band 802.11ac. 2.4G radio supports 2x2 802.11b/g/n MIMO. 5G radio supports 4x4 802.11a/n/ac MIMO. It can provide up to 2Gbps aggregate Wi-Fi access speed. WF-808 can meet the requirements for the high-speed real traffic and entertainment, such as HD video, video game and VR.

WF-808 integrates OpensyncTM control plane launched by Plume. OpensyncTM creates a multi-industry, open service curation, delivery, management and support framework. WF-808 supports to be managed by Plume cloud remotely. This allows for curation, rapid and scalable delivery, comprehensive back office management, and enhanced support of cloud-based services to the consumer.

WF-808 supports to be configured and managed by the Plume mobile App. It will make it much easier for the end-users to set up their own home Wi-Fi network.

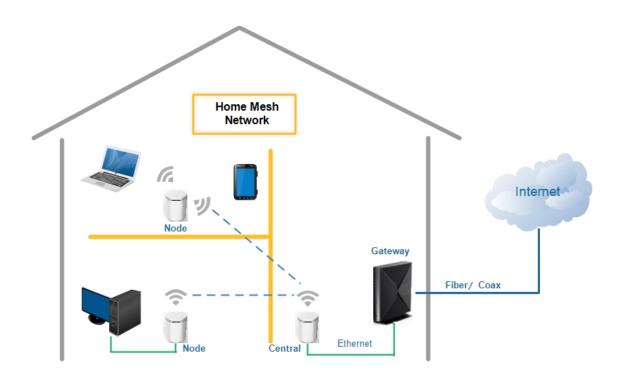


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Key Features

- Desktop placement
- 2.4GHz 2x2 802.11b/g/n
- 5GHz 4x4 802.11a/n/ac
- WPA/WPA2-PSK(AES)
- BLE 5.0
- 6 x Integrated Wi-Fi antennas
- 1 x Integrated BLE antennas
- 1 x GE RJ45 LAN
- 1 x Status LED (multi-color)
- 1 x AC/ DC power supply
- Supports Opensync[™] control plane
- Integrated with Plume Cloud management
- Integrated with Plume mobile management application (Android and iOS)



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Specification

Item	WF-808					
Dimension (D x H)	82mm (Diameter) × 100mm (High)					
Weight	280g					
Installation	Desktop placement					
LEDs	1x Status LED (multi-color)					
Interface	1 x GE RJ45 LAN 1 x DC jack, support DC 5V in					
Input Voltage	+5V/ 3A					
Power consumption	< 10W					
Environmental Specification						
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					
Safety	 The device compliances with: 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 CE 					

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ltem	WF-808					
	RoHS 2011/65/EU compliant (RoHS 10 compliant, no Pb)					
Reliability						
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)					
Chipset						
Wi-Fi SoC	MT7621A MIPS1004Kc (880MHz, Dual- Core)					
Flash	128MB NAND flash					
DDR	128MB DDR3 Ram					
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	2.4G radio: 17dBm@MCS0, 15dBm@MCS15					
power (per chain)	5G radio:19dBm@MCS0; 16dBm@MCS9					
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					
Receive Sensitivity	802.11g: -90dBm@6Mbps -74dBm@54Mbps					

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Item	WF-808									
	802.11n:									
		HT20)	HT40	HT40					
	MCS0/8/1	S0/8/16 -90d		-87dB	m					
	MCS7/15	-71d	3m -68dBm							
	802.11a: -90dBm@6Mbps -74dBm@54Mbps 802.11ac:									
		VHT20		40 VHT8		80				
	MCS0	-90dBm	-87d	-87dBm -84d		lBm				
	MCS8	-67dBm				/				
	MCS9	/	-61d	Bm	8m -58c					
Antenna Pattern (Built-in Antennas)	Polarization		2400 ~ 2500 Vertical/Horizontal			4940 ~ 5850 Vertical/Horizontal				
	Gain(dBi)		>3			>3				

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