

Wi-Fi Extender DeskPod WF-808

Product Datasheet

VERSION3.2

Partnership for the Next Generation Broadband Solution



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 capabilities. It dynamically selects the most reliable Wi-Fi channel and path, 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 is able to operate on Plume cloud just like any Plume product. This allows for curation, rapid and scalable delivery, comprehensive back office management, and enhanced support of cloud-based services to the consumer.

End-users add WF-808 to their Plume account using only the Plume Mobile App, it is also managed by the Plume Mobile App, making it much easier for the end-users to set up their Wi-Fi network.





Key Features

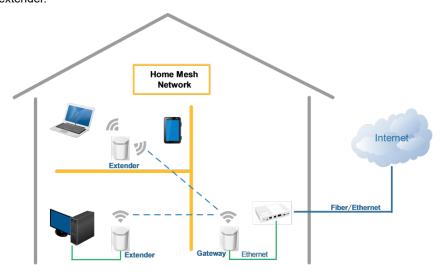
- Desktop placement
- 2.4GHz 2x2 802.11b/g/n
- 5GHz 4x4 802.11a/n/ac
- WPA/WPA2-PSK(AES)
- BLE 5.0
- 6 x Integrated Wi-Fi antennas
- 1 x Integrated BLE antennas
- 1 x GE RJ45 LAN
- 1 x Status LED (multi-color)
- 1 x AC/ DC power supply
- Supports Opensync[™] control plane
- Integrated with Plume Cloud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

Please download HomePass App using the following Plume QR code:

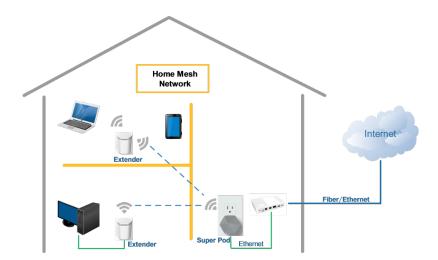


Application Scenario

 Three WF-808s set up the mesh network. One operates as the gateway and the other two as Wi-Fi extender.



• WF-808 interoperates with Plume SuperPod to set up the mesh network. SuperPod works as the gateway and WF-808 works as the Wi-Fi extender.





■ Software Features

Category	Features
Network	Bridge Mode - DHCP Client - Backhaul with 2.4G/ 5G Wi-Fi/ Ethernet
	Router Mode - IPv4 - NAT - WAN DHCP client - LAN DHCP server - DNS server - DHCP reservation - uPNP - Port forwarding - Backhaul with Ethernet IGMP Snooping
	2.4GHz bandwidth: 20/ 40MHz, 5GHz bandwidth: 20/40/80MHz
	802.11 k/ v/ r
	Band steering
Wi-Fi	Channel scan
VVI-FI	DFS
	SSID broadcast
	WPA/WPA2 PSK security
	uAPSD
	Network topology display - Device connected - Client accessed - Channel - Backhaul type
	Network optimize
Cloud Management	Network SSID based on the location
	WPA/WPA2 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 (under development)			
	Device discovery			
	Add/ Delete the device			
Mobile App	Configure SSID			
Management	Configure password			
	Auto upgrade			
	Antivirus (under development)			
	Green Solid: Device power on.			
LED	Blue Blinks: Device is connecting to the Cloud.			
LED	OFF : Device has been connected to the Cloud.			
	Blue Double Blinks: Network optimization in progress or locate device.			



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 USB type-C DC 5V in				
Input Voltage	+5V/ 3A				
Power consumption	< 10W				
Environmental Specific	eation				
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 				



Item	WF-808					
	 CE 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	256MB DDR3 Ram					
Wi-Fi Interface						
Operating frequency	2.4G radio:2.4000GHz~2.4835GHz					
Operating inequency	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					



Item	WF-808							
	802.11n:							
		HT20) Н	T40				
	MCS0/8/	16 -90dE	m -87dE	37dBm				
	MCS7/1	5 -71dE	3m -6	-68dBm				
	802.11a: -90dBm@6Mbps							
	-74dBm@54Mbps							
	802.11ac:							
		VHT20	VHT40	VHT	80			
	MCS0	-90dBm	-87dBm	n -840	IBm			
	MCS8	-67dBm	1		/			
	MCS9	1	-61dBm	-58c	IBm			
Antenna Pattern	Frequency(MHz)		2400 ~ 2500		4940 ~ 5	850		
(Built-in Antennas)	Polarization Gain(dBi)		Vertical/Horizontal >3		Vertical/Horizontal >3			