CIG

HomeMesh^{TM} Wireless WF802W

Product Datasheet

VERSION5.0

February, 2018

Partnership for the Next Generation Broadband Solution

■ Overview

WF-802W product family is composed of many distinct products designed to extend network connectivity at home using Wi-Fi SON (Self-Organizing Network). Wi-Fi SON is a technology provides self-configuring, self-healing, self-managing, and self-defending for Wi-Fi home network. It dynamically selects the most reliable Wi-Fi path and enables fast and seamless handoffs for end-users.

WF-802W supports dual-band 802.11ac 2x2 MIMO. It can provide up to 1167Mbps Wi-Fi access. It will help you to set your high-speed and reliable home network.

WF-802W supports the mobile App to management, including the configuration, monitoring and upgrading.

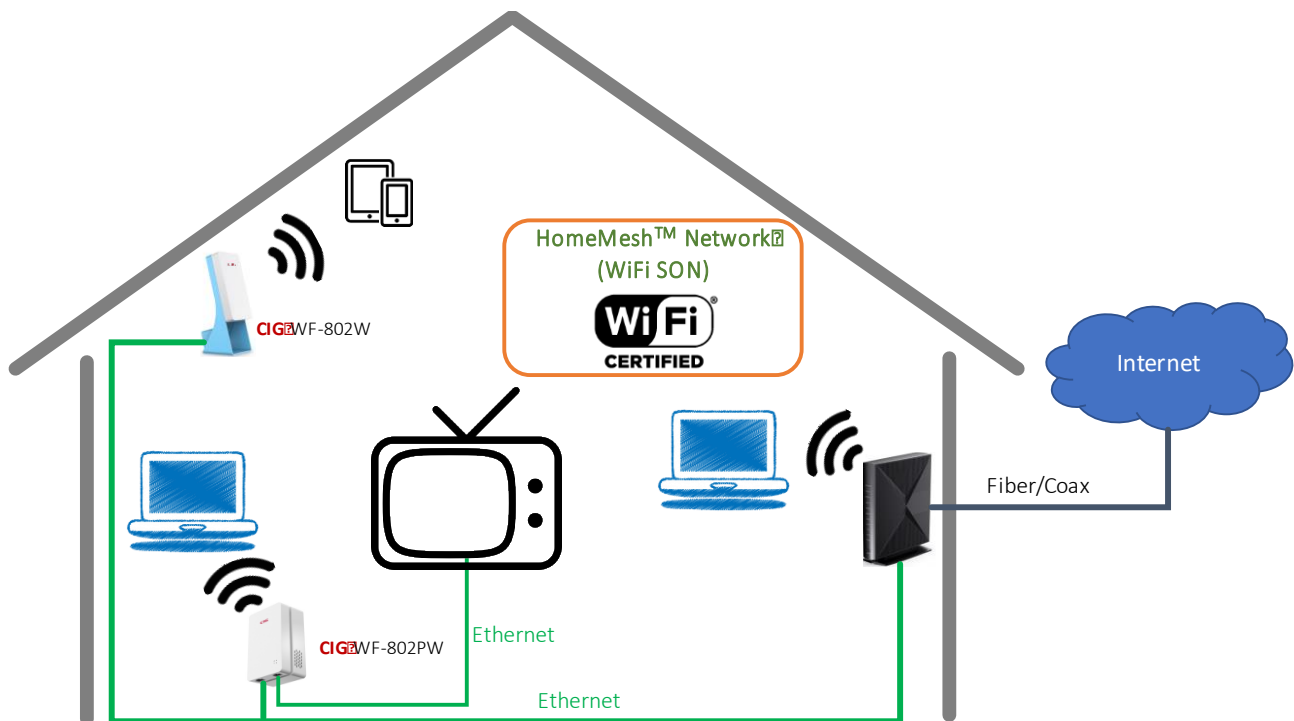WF-802W is very easy to install, just press the paring button and you can complete all of these in few minutes.

Key Features

- Desktop/wall-mount
- 2.4GHz 802.11b/g/n
- 5GHz 802.11a/n/ac
- WPA/WPA2-PSK(AES)
- 2 x GE RJ45 LAN
- 1 x Paring button for Wi-Fi
- 1 x USB type C DC jack, support DC 5V in
- 3 x Status LEDs (Power/ LAN/ Wi-Fi)
- Integrated with mobile management application

  Mobile Management Application

- Configuration tool to monitor and manage devices
- Upgrading tool to update the device firmware
- Android and iOS support

■ Specification

Item	WF-802W
Dimension (W x D x H)	175mm × 65mm × 79mm
Weight	250g
Installation	Desktop/wall-mount
LEDs	Power/ LAN/ Wi-Fi
Interface	2 x GE RJ45 LAN 1 x Push-button pairing for Wi-Fi 1 x USB type C DC jack, support DC 5V in
Input Voltage	+5V/ 3A
Power consumption	< 8.5W
Environmental Specification	
Temperature	Operation: 0℃ ~ +40℃ Storage: -20℃ ~ +85℃
Operating Humidity	5% ~ 95% (non-condensing)
Elevations	86kPa ~ 106kPa altitude
Dustproof and Waterproof	IP20
Safety	NRTL Listed 60950 (US & CA) CB with IEC/EN 60950-1 (Basic safety certificate for worldwide marketing) UL2043 (Plenum rating) FCC CE ：Class B
Reliability	

Item	WF-802W
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, 25ºC ambient temperature. Steady state, not including software failure.
AFR	AFR (Annualized Failure Rate) < 1.5% (in continuous operation)
Chipset	
Wi-Fi SoC	Dakota IPQ4018 A7@716.8MHz
Flash	32M bit SPI NOR flash +1G bit SPI NAND flash
DDR	256MB DDR3L 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 power (per chain)	2.4G radio: 17dBm@MCS0, 16dBm@MCS15
	5G radio:19dBm@MCS0; 18dBm@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 802.11n:

802.11n:

	HT20	HT40
MCS0/8/16	-90dBm	-87dBm
MCS7/15	-71dBm	-68dBm

802.11a: -90dBm@6Mbps
        -74dBm@54Mbps

Item	WF-802W			
	802.11ac:			

802.11ac:

	VHT20	VHT40	VHT80
MCS0	-90dBm	-87dBm	-84dBm
MCS8	-67dBm	/	/
MCS9	/	-61dBm	-58dBm

Item	WF-802W
Antenna Pattern (Built-in Antennas)	

Frequency(MHz)	2400 ~ 2500	4940 ~ 5850
Polarization	Vertical/Horizontal	Vertical/Horizontal
Gain(dBi)	>3	>5

■ Contact Information

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