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Shenzhen Fengrunda Technology Co.,Ltd

Model：W668OHAP

一、 Brand and manufacturer information

Manufacturer：**Shenzhen Fengrunda Technology Co.,Ltd**

二、 Model and version

Model：W668OHAP

Version：V1.0

三、 Product Overview and Features

Product Overview

W668OHAP is a high-performance 4T4R dual-band 802.11AX product that can provide 2.4G and 5.8GHz dual-band wireless services. 2.4G provides a maximum access rate of 574Mbps, and 5G provides a maximum access rate of 2402Mbps.

Product Features

• It has better transmission quality, higher transmission rate, and the concurrent rate can reach up to 3000Mbps.

• The use of IPQ5018 chip greatly expands the user capacity and can support 128 users.

• The heat sink adopts snap-on structure design and surface nano-coating treatment, which makes the heat dissipation effect more ideal.

• The radio frequency uses high-power FEM, which has stable performance and farther coverage.

• The addition of lightning protection board components greatly enhances the protective

capabilities of the equipment.

Technical Parameters

Hardware specifications					
Product number	W668OHAP				
CPU	IPQ5018 + QCN6102+ QCA8081				
Flash	SPI NOR 8MB SPI NAND 128MB				
DDR3	External 512MB*1				
2.4G Working frequency	2.4GHz ~ 2.484GHz				
2.4G WIFI Transfer Protocol	802.11 b / g / n / ac / ax				
5G Working frequency	5.150GHz ~ 5.850GHz				
5G WIFITransfer Protocol	802.11 a / n / ac / ax				
Built-in antenna 2.4G	2 2.4G antennas, each gain: 5dBi				
Built-in antenna 5G	2 5.8G antennas, each gain: 7dBi				
Maximum speed	2.4G provides a maximum access rate of 574Mbps, and 5G provides a maximum access rate of 2402Mbps.				
2.4G Wireless power	802.11b	11M	26±2dBm	1M	26±2dBm
	802.11g	54M	23±2dBm	6M	25±2dBm
	802.11n HT20	MCS7	22±2dBm	MCS0	24±2dBm
	802.11n HT40	MCS7	22±2dBm	MCS0	24±2dBm
	802.11ax HE20	MCS11	20±2dBm	MCS0	24±2dBm
	802.11ax HE40	MCS11	20±2dBm	MCS0	24±2dBm
5G Wireless power	802.11a	54M	22±2dBm	6M	25±2dBm
	802.11n HT20	MCS7	21±2dBm	MCS0	23±2dBm
	802.11n HT40	MCS7	21±2dBm	MCS0	23±2dBm
	802.11ac VHT20	MCS9	21±2dBm	MCS0	23±2dBm

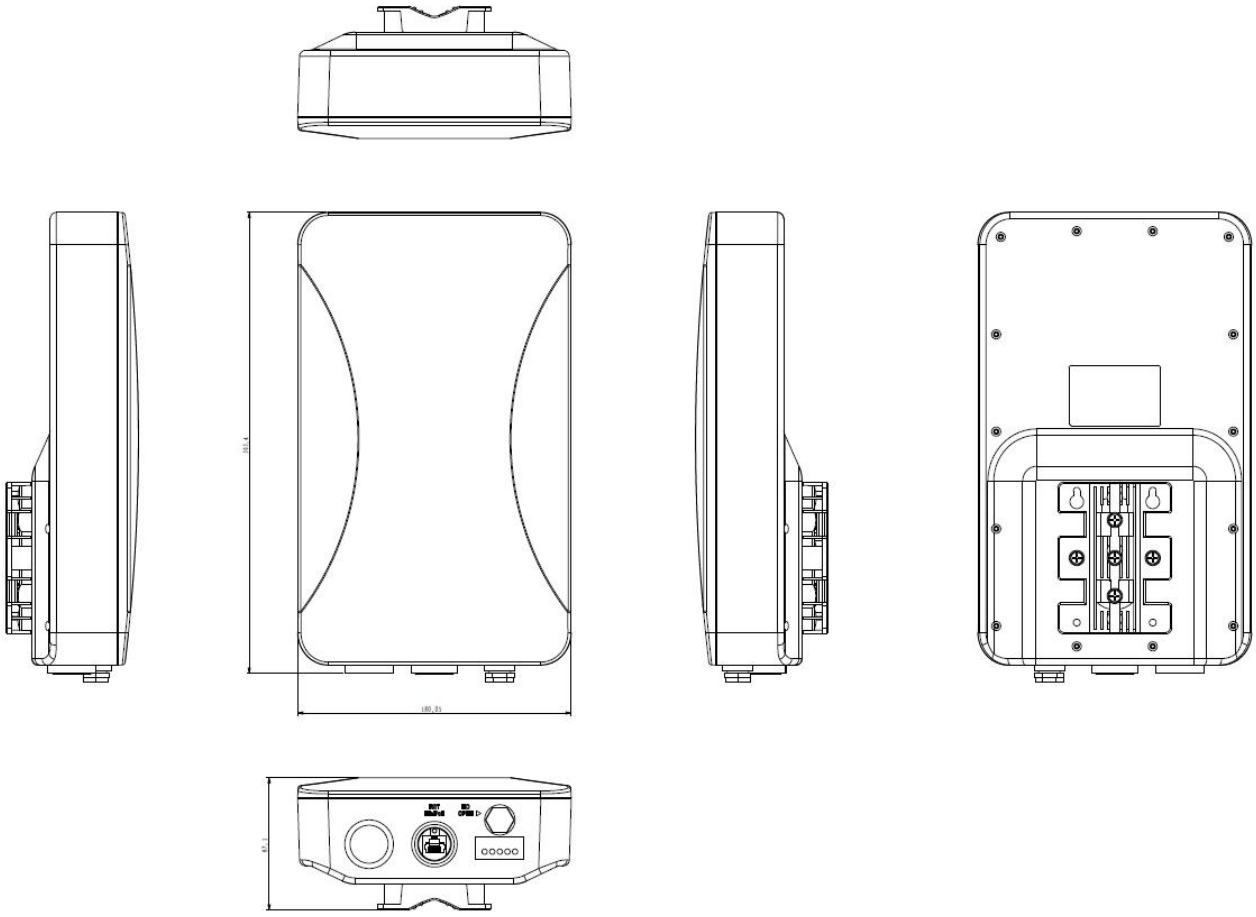
	802.11ac VHT40	MCS9	20±2dBm	MCS0	23±2dBm
	802.11ac VHT80	MCS9	20±2dBm	MCS0	23±2dBm
	802.11ax HE20	MCS11	20±2dBm	MCS0	22±2dBm
	802.11ax HE40	MCS11	20±2dBm	MCS0	22±2dBm
	802.11ax HE80	MCS11	20±2dBm	MCS0	22±2dBm
	802.11ax HE160	MCS11	20±2dBm	MCS0	22±2dBm
2.4G Receive sensitivity	802.11b	11M	-87dBm	1M	-94dBm
	802.11g	54M	-75dBm	6M	-88dBm
	802.11n HT20	MCS7	-72dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-63dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-61dBm	MCS0	-88dBm
5G Receive sensitivity	802.11a	54M	-75dBm	6M	-90dBm
	802.11n HT20	MCS7	-73dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-63dBm	MCS0	-88dBm
	802.11ac VHT20	MCS8	-67dBm	MCS0	-88dBm
	802.11ac VHT40	MCS9	-64dBm	MCS0	-88dBm
	802.11ac VHT80	MCS9	-60dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-61dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-58dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-55dBm	MCS0	-84dBm
	802.11ax HE160	MCS11	-51dBm	MCS0	-82dBm
2.4G EVM	802.11b:≤-10 dB ; 802.11g: ≤-25 dB ; 802.11n:≤-28 dB ; 802.11ax:≤-35 dB				
5G EVM	802.11a:≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac:≤-32 dB ; 802.11ax:≤-35 dB				
Frequency deviation（ppm）	±20ppm				
Interface (RJ45)	1 10/100/1000/2500Mbps adaptive WAN port, supports POE 48V power supply;				
Interface (RJ45)	1 10/100/1000Mbps adaptive LAN port;				
External keys	Reset button (press and hold for 6-10 seconds to restore factory default configuration)				

Status Indicator	PWR light, SYS light, WAN port light, 2.4G light, 5.8G light
Powered	PoE 802.3at
Maximum power consumption	< 16W
Product Size	304mm × 181mm × 88mm
Weight	1.6kg
Working environment	Normal operating temperature: -20°C to 55°C; Storage temperature: -40°C to 70°C; Humidity: 5% to 95% (non-condensation)
Protection level	IP67
ESD	Air discharge +/-8kV, contact discharge +/-6kV
Surge	Common mode 4kV, differential mode 2kV

四、 Software functions

Front page	Working mode: fat AP mode and thin AP mode
	Wireless AP download rate, wireless AP upload rate, running time
	Device information, device description, intranet information, WIFI information
Support mode	Gateway mode: The device connects to the WAN through the WAN port and then uses static IP, DHCP or PPPOE to access the Internet.
	AP mode: The device covers the wireless network signal to other clients and devices, and uses Ethernet to connect to other routers to access the WAN
Wireless function	SSID broadcast
	SSID quantity：4（2.4GHz）+4（5GHz），支持中文 SSID
	Hide SSID function
	Wireless encryption：OPEN、WPA/WPA2PSK-TKIPAES、WPA3PSK-TKIPAES
	Wireless MAC address filtering: support whitelist
	Spectrum navigation (5G priority)
	WiFi scheduled shutdown function
	User isolation: isolation between wireless networks, isolation within APs
	Transmit power setting
	Limit on the number of wireless clients
	QoS：WMM
Internet function	Connection method: Static address, obtained from the management server, obtained from the gateway
	DHCP server: It can be a built-in DHCP server or an external DHCP server.

	Cloud platform server
	Firewall function
	PPPOE function: Support PPPOE dial-up function
Device management	Back up configuration information
	Restore configuration information
	Reset
	Restart includes scheduled restart and immediate restart
	Firmware upgrade
	Time management includes system display time and time synchronization
	System log
	Fat and thin AP switching function

五、 Interface diagram

六、 Product size chart