

# WF-180

## High performance dual-band 802.11ac Wireless AP



### Highlight

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- ◆ Dual-band 2x2 MIMO
- ◆ 1167Mbps combined data rate
- ◆ Gigabit wired interface
- ◆ AP/WDS/AP-WDS operation modes
- ◆ Prioritizes applications and maintains quality of experience
- ◆ 32 SSIDs
- ◆ Up to 256 simultaneous users
- ◆ Industry-Standard Security

### Overview

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WF-180 is a dual-band 2x2 MIMO 802.11ac indoor Wi-Fi AP, which is designed for high-density deployments in large offices, schools, hospitals and hotels that require premium performance. Having perfect compatibility, it works with most wireless terminals to build a high capacity Wi-Fi network.

WF-180 can provide up to 1167Mbps aggregated data rates . The enhanced transmission power and receive sensitivity make it deliver the high throughput and reliable coverage required. WF-180 supports AP, AP WDS and WDS bridge operation modes. The flexible applications can meet the requirements in different scenarios.

WF-180 supports centralized management by integration with 3rd party controller or cloud management systems. It is convenient to manage and monitor the APs remotely. Multiple separate SSIDs help to control the access to the network. With the QoS policy, the service with high priority can be assured for the good experience. The 802.1x and Web authentication provide the enhanced security for the system.

# Feature

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## ◆ Dual-band 2x2 MIMO Radio

WF-180 is compliant with IEEE 802.11 n and 802.11ac standard (MIMO 2×2). Utilizes 802.11 standard speeds, up to 300Mbps on the 2.4 GHz frequency band and up to 867Mbps on the 5GHz frequency band. The antenna system is specially designed for high density, high complicity indoor deployments. It finds the most efficient path to a wireless client for media streaming, online gaming, and large file transferring. The WF-180 has perfect compatible with most wireless terminals, including the wireless adapter, the notebook, the phone, etc.

## ◆ All-in-one Integrated AP

The integrated FAT AP software package provides complete functionalities for quick deployments. The functions include, QoS, Web auth, MAC auth, MAC ACL, Portal Integration, VLAN, IGMP, NTP, etc. It can meet the requirements of the various applications.

## ◆ 3rd party integration: Open platform

WF-180 supports centralized management by integration with 3rd party controller or cloud management systems. The management data between the WF-180 and the access controller is encrypted. The APs are zero configurations, before connecting to the AC. By creating the different service templates, it is easy for the manager to configure many APs in a short time. It is possible for the manager to manage the WF-180 from anywhere, modifying the configurations, upgrading the software, rebooting the AP, and monitoring the AP status by the alarms or system logs.

## ◆ Multiple wireless services

WF-180 supports multiple operation modes, including AP, AP WDS and WDS bridge. Working in the AP mode, WF-180 provides the high capacity wireless access in an area. By enabling the AP WDS for the radio, the WF-180 can support the clients with WDS to access. WDS bridge mode on 5GHz radio and AP mode on 2.4GHz radio, make it possible to establish the mesh network.

## ◆ Prioritizes Applications and Maintains Quality of Experience

The advanced QoS (Quality of Service) prioritizes bandwidth intensive applications like HD video and gaming or bandwidth sensitive applications like VoIP telephone calls. The bandwidth limitation based on the SSID/Role helps to control the access for the different users.

## ◆ Multiple SSIDs

WF-180 supports 32 SSIDs, 16 SSIDs for each radio. And these SSIDs are isolated. The clients access to different SSIDs are forbidden to visit each other and the private information is protected very well. Based on each SSID, it can apply the different QoS policy and authentication method. With WF-180, it is convenient for the customer to classify the access roles. It supports up to 256 users accessing.

## ◆ Industry-Standard Security

WF-180 supports multiple security methods, WEP, WPA/WPA2-PSK, 802.1x Auth (PEAP, EAP/SIM), MAC Auth and Web Auth. Denial of accessing by MAC ACL make your business network safe from intruders or from malicious software attacks from the Internet.

# Feature

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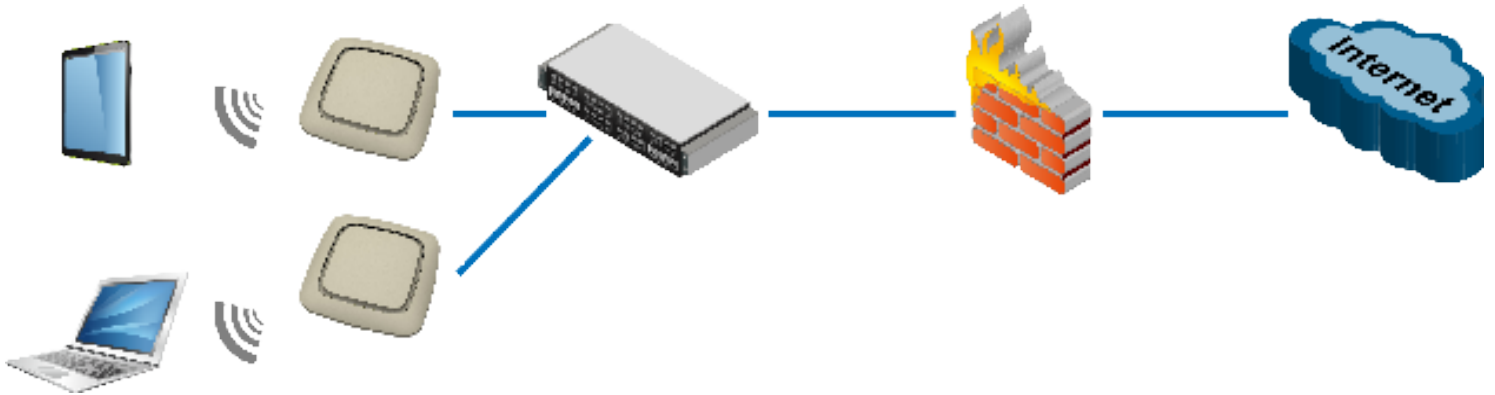
## ◆ Easy Installation

WF-180 is designed with indoor industry standard.

And the operation temperature is 0°C to +45°C.

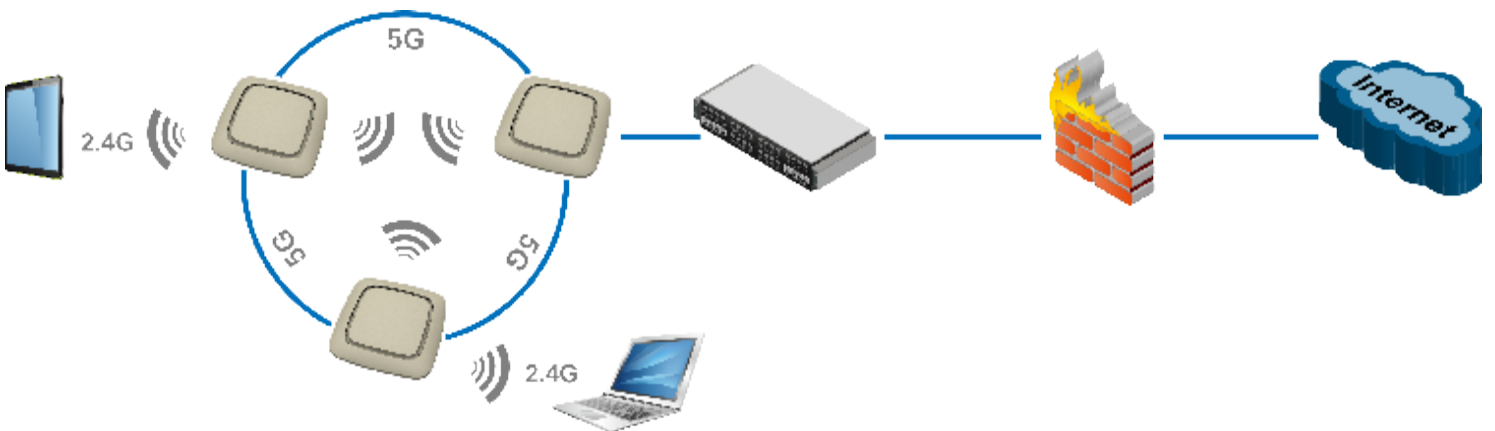
It can be installed in most outdoor environments to support broadband access services for wired or wireless users. For example, it can be placed on a wall or on the ceiling.

# Applications



## ◆ Indoor coverage as stand-alone AP

As a stand-alone Wi-Fi AP, WF-180 supports up to 32 SSIDs (16 SSIDs for each radio) with enhanced high-performance and high capacity. It is a good fit for small to medium sized corporate wireless LAN network.



## ◆ Wireless Mesh Network

By enable the WDS bridge on 5GHz radio, WF-180 can establish the mesh with each other. On 2.4G Hz radio, it provide the wireless coverage for the area. And the different clients accessing to different APs can visit each other or visit the Internet by the wireless mesh network.

# Specifications

## Chipset

- QCA9557(SoC)+ QCA9882(5G 802.11ac)
- 512KB nor flash + 128MB NAND flash
- 128MB DDR2 Ram

## Physical Specification

- Dimension:160mm (W) x 160mm (D) x 40mm (H)
- Installation: ceiling mounting or wall mounting
- LEDs:
  - RUN
  - ETH
  - 5G
  - 2.4G

## Environmental Specification

- Operating temperature:0℃ ~ +45℃
- Humidity: 5% ~ 95% non-condensing
- Dustproof and Waterproof: IP30,
- RoHS 2011/65/EU compliant ; WEEE 2002/96/EC recyclable materials requirements

## Power Supply

- Power input:
  - +12V/1A
  - 802.3af PoE (PD)
- Power consumption: less than 12W

## Antenna Pattern (Built-in Antennas)

Frequency(MHz)	2400~2500	5150~5850
Polarization	Vertical	Vertical
Gain(dBi)	3+	3+

## Interface

- 1 x GE(uplink) & PoE Interface
- 1 x Console

- 1 x Reset Button
- 1 x One external DC power input (12VDC)
- 1 x USB 2.0

## 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:
  - 2.4G radio:up to 23dBm\*
  - 5G radio:up to 23dBm\*

\*Maxim transmit power may change according country regulation and transmission rates.

- Receive sensitivity:

- 802.11g:
  - -91dBm@6Mbps
  - -77dBm@54Mbps

- 802.11n:

	HT20	HT40
MCS0/8/16	-91dBm	-88dBm
MCS7/15	-74dBm	-71dBm

- 802.11a:

- -93dBm@6Mbps
- -77dBm@54Mbps

- 802.11ac:

	VHT20	VHT40	VHT80
MCS0	-91dBm	-88dBm	-85dBm
MCS8	-70dBm	/	/
MCS9	/	-64dBm	-61dBm

## Safety & EMI

- FCC compliant
- UL certificate

# Contact Information

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