

ZISA W180

ACCESS POINTS

Ultra-fast 1.2Gbps Dual-Band 802.11ac AP



Overview

The W180 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.

The W180 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. The W180 supports AP, AP WDS and WDS bridge operation modes. The flexible applications can meet the requirements in different scenarios.

The W180 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.

Highlight

- 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

Feature

- **Dual-band 2x2 MIMO Radio**

The W180 is compliant with IEEE 802.11 n and 802.11 ac standard (MIMO 2x2). 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 W180 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**

The W180 supports centralized management by integration with 3rd party controller or cloud management systems. The management data between the W180 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 W180 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**

The W180 supports multiple operation modes, including AP, AP WDS and WDS bridge. Working in the AP mode, the W180 provides the high capacity wireless access in an area. By enabling the AP WDS for the radio, the W180 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**

The W180 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 the W180, it is convenient for the customer to classify the access roles. It supports up to 256 users accessing.

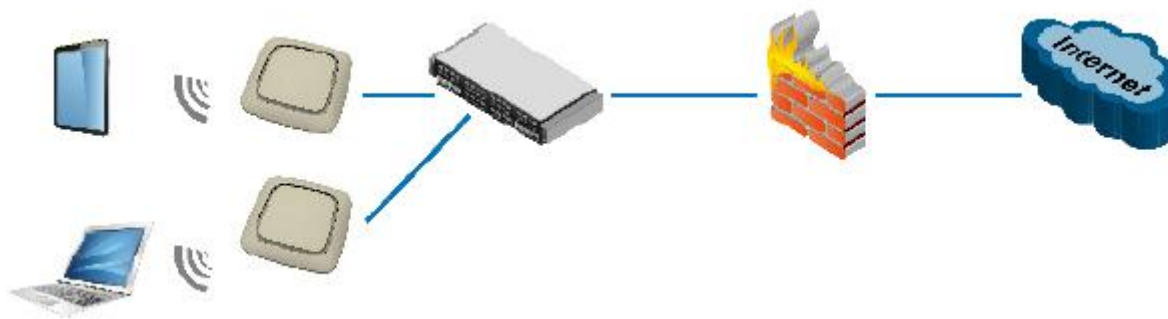
- **Industry-Standard Security**

The W180 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.

- **Easy Installation**

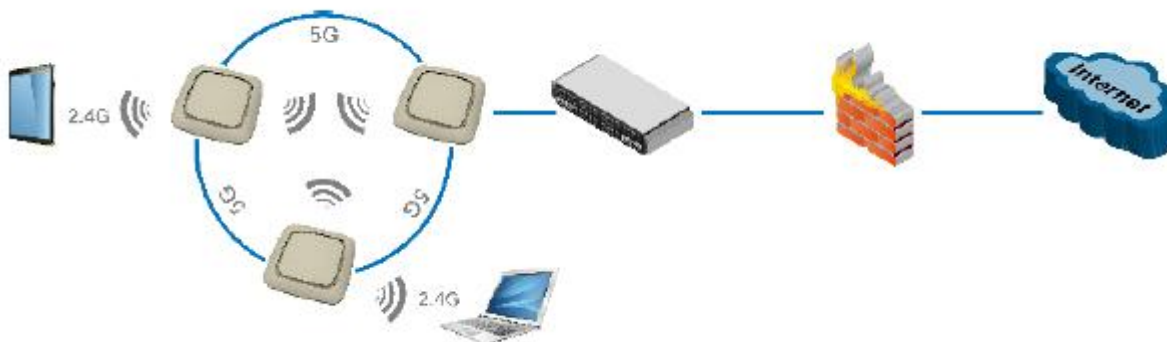
The W180 is designed with indoor industry standard. And the operation temperature is 0°C to +45°C. It can be installed in most outdoor environments to support broadband access services for wired or wireless users. For example, it can be placed on a wall or on the ceiling.

Applications



- **Indoor coverage as stand-alone AP**

As a stand-alone Wi-Fi AP, the W180 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, the W180 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

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°C ~ +45°C
- 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, 5.725~5.875 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

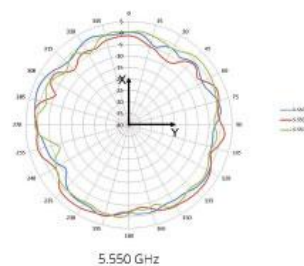
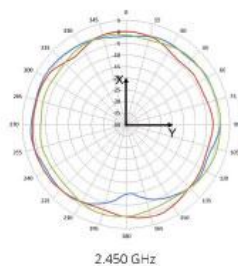
Safety & EMI

- FCC compliant
- UL certificate

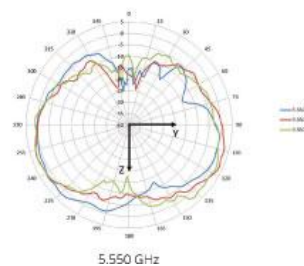
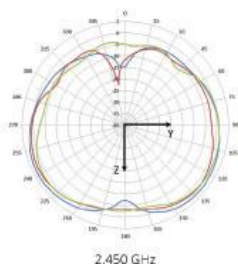
ANTENNA PATTERN PLOTS

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Horizontal or Azimuth plane (top view)



Elevation plane (side view)



RF PERFORMANCE TABLE

RF PERFORMANCE TABLE		
	Maximum transmit power (dBm) per transmit chain	Receiver sensitivity (dBm) per receive chain
802.11b 2.4 GHz		
1 Mbps	18.0	-94.0
2 Mbps	18.0	-90.0
5.5 Mbps	18.0	-89.0
11 Mbps	18.0	-88.0
802.11g 2.4 GHz and 802.11a 5 GHz		
6 Mbps	18.0	-91.0
54 Mbps	16.0	-76.0
802.11n HT20 2.4 GHz and 5 GHz		
MCS0/8	18.0	-91.0
MCS7/15	14.5	-73.0
802.11n HT40 2.4 GHz and 5 GHz		
MCS0/8	18.0	-88.0
MCS7/15	14.5	-70.0
802.11ac VHT20 5 GHz		
MCS0	18.0	-91.0
MCS9	12.5	-64.0
802.11ac VHT40 5 GHz		
MCS0	18.0	-88.0
MCS9	12.5	-61.0
802.11ac VHT80 5 GHz		
MCS0	18.0	-85.0
MCS9	12.5	-58.0

Maximum capability of the hardware provided. Maximum transmit power is limited by local regulatory settings.

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