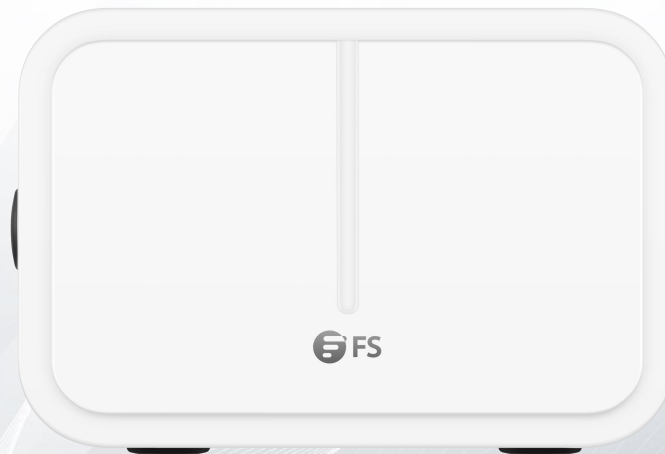


AP-T567 Access Point Datasheet

2400 Mbps 2x2 MU-MIMO Dual-Band Gigabit Wi-Fi 6 Outdoor Access Point



Overview

AP-T567 adopts a hardware-independent dual-radio design. The whole unit can provide a maximum access rate of 2.4 Gbps; It supports a built-in directional antenna, multi-hop, and point-to-multipoint bridge functions, which can meet the needs of outdoor wireless Wi-Fi network coverage and outdoor networking under most environmental requirements. IP68 protection grade housing design can effectively avoid bad outdoor weather. It is highly adaptable to the harsh needs of cold weather and humid weather, which significantly reduces the difficulty of installation and maintenance. The AP is ideal for outdoor locations such as general education, small and medium-sized enterprises, energy, commerce, government, medical and other outdoor scenarios.

Benefits

- Dual Radios 2400 Mbps: 2.4 GHz (2x2), 5 GHz (2x2)
- OFDMA and MU-MIMO Support
- Support Seamless Roaming with WLAN Controller
- Managed via WLAN Controller or Simply Operate Alone
- IP68 Rated for Harsh Outdoor Environments
- Wall-Mount and Pole-Mount Model
- Powered by 802.3af PoE (PoE injector sold separately)

Product Characteristics

Multi-service Port Design

The AP-T567 whole machine can support up to 2G wired access rate. In addition, an adaptive Ethernet electrical port provides up to 1G high-speed wired access; an adaptive Ethernet optical port provides up to 1G high-speed wired access; to achieve high-speed transmission conversion between wireless and wired.

Wi-Fi 6 Technology

- **1024-QAM High-speed Access**

The AP-T567 features a dual-way, dual-band design with the next-generation Wi-Fi wireless standard 802.11ax protocol; dual radio frequencies are turned on simultaneously for up to 2.4Gbps high-speed wireless for a high-speed, complete experience.

High-density deployments and access environments can increase the average rate of a single user up to four times that of 802.11ac.

- **OFDMA High-density User Access**

The AP supports OFDMA of 802.11ax, which divides the WLAN channel into a plurality of narrower subchannels, with each user occupying one or more subchannels. By scheduling multiple users to receive and send packets concurrently via the AP, user competition and back-off can be reduced, thereby reducing network latency and improving network efficiency.

- **Bi-Directional MU-MIMO**

Compared with the previous Wi-Fi 5 (802.11ac) with only downlink MU-MIMO support, Wi-Fi 6 supports both uplink and downlink MU-MIMO (multi-user, multiple-input and multiple-output). Therefore, the AP can connect clients simultaneously, significantly improving the wireless performance and experience.

- **BSS Color Space Multiplexing**

AP-T567 supports the BSS Color space multiplexing function of 802.11ax standard, which identifies different BSS (Basic Service Set) of WLANs in the network by different coloring (BSS Color). Further, it divides them into two categories: internal BSS (device belonging to BSS) and external BSS. The BSSs are identified by different colorings (BSS Color) and further divided into internal BSSs (device owned BSSs) and external BSSs and maintains different threshold values for receiving and sending messages. When receiving a statement, the BSS color is used to quickly determine that the message is from an external BSS. If the signal strength is less than the threshold value of the external BSS, the message is ignored, and the message from the internal BSS is not affected.

This technique can achieve channel multiplexing in high-density scenarios and alleviate the impact of co-channel interference in actual network deployment.

- **Green with the Lower Power Consumption per Unit of Performance**

A large number of new energy-saving technologies have been applied to the AP-T567, including single-antenna standby technology, dynamic MIMO power-saving technology, enhanced automatic power-saving transmission technology, and packet-by-packet power control technology, which, combined with the high-performance power supply design, make the AP-T567 provide high-speed wireless access while easily saving energy and power.

- **Flexible WDS Networking Mode**

The AP support WDS (Wireless Distributed System) technology, which can provide AP coverage or a wireless bridge. High-performance wireless bridging can be accomplished at a distance of 3KM. It also supports the point-to-multipoint (CPE application scenario) bridge function, making wireless networking more flexible. It meets the network demand for outdoor wide range wireless coverage and long-distance high-speed wireless interconnection and flexibly solves the problem of outdoor wireless deployment.

- **Intelligent Local Forwarding**

The AP-T567 inherits the intelligent local forwarding technology of FS Networks, breaking through the limitation of the traffic bottleneck of the wireless controller. Furthermore, through the cooperation of the FS wireless controller, the data forwarding mode of the AP can be flexibly pre-configured according to the SSID name or user VLAN to decide whether to forward through the wireless controller or directly enter the wired network for data exchange.

Through the local forwarding technology, data that is sensitive to delay and requires high real-time transmission can be forwarded through the wired network, which can greatly relieve the traffic pressure of the wireless controller and better adapt to the high traffic transmission requirements of the 802.11ax network.

- **Abundant QoS Policies**

The AP supports abundant QoS policies. It provides WLAN/AP/STA-based bandwidth limitation and supports Wi-Fi Multimedia (WMM) that defines priorities for different service data. The AP authentically implements timely and quantitative transmission of audio and video, and guarantees smooth application of multimedia services.

Comprehensive Security Protection

- **Secure User Access**

The AP Supports Web, 802.1x, MAC address, local authentication, and other user access authentication methods. In addition, complying with the standard network access control, it offers a set of control policies in terms of user access, authorization, equipment compliance check, network behavior monitoring, network attack prevention, etc. All these control features guarantee high network security for authenticated users.

- **Flexible Virtual AP Technology**

Through Virtual AP technology, AP-T567 can provide up to 32 virtual APs; each RF card can provide up to 16 virtual APs. As a result, network administrators can implement encryption and isolation separately for subnets or VLANs using the same SSID. They can flexibly configure different authentication methods, encryption mechanisms, etc., for each SSID.

- **Wireless Security Protection**

With the wireless controller, AP-T567 has a series of wireless security protection features such as WIDS (wireless intrusion detection), RF interference positioning, rogue AP countermeasures, anti-ARP spoofing, DHCP security protection, etc. to fundamentally build a safe and reliable wireless network for users.

Hybrid Management

- **Flexible Management Options**

All APs support hybrid management mode. Either deployed as standalone AP (Fat mode) or managed AP (Fit mode), the AP will detect the operation mode automatically without extra effort on firmware upgrade.

- **Web Management Interface**

AP-T567 provides a Web management interface for AC and AP, easy to handle wireless configuration, and operates the wireless network as a whole. The Web interface of AC can manage AP and manage the users connected under AP, limiting users' speed and restricting users from connecting to the network and other behaviors. Hence, it is convenient for operation and maintenance personnel to plan to operate the wireless.

Small Branch Office All-in-One

The AP-T567 can provide wireless access service for office areas and act as a VPN gateway in a small branch office scenario, realizing All-in-One of AP + VPN gateway, simplifying network deployment and saving construction costs for users. The S3910 series switches comply with the RoHS in materials and security.

- **PPPoE**

The AP-T567 supports the PPPoE client function, which can access the Internet through PPPoE so that the branch office area does not need to set up a separate gateway to access the Internet.

- **NAT**

The AP-T567 supports the NAT function to provide NAT address translation between LAN and the branch office's Internet.

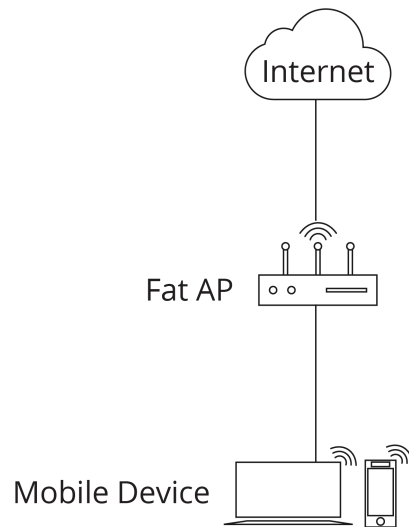
- **IPsec VPN**

The AP-T567 supports IPsec VPN, enabling IPsec VPN tunnels to be established between branch office areas and office headquarters, enabling LAN interconnection between headquarters and all branch office areas.

Typical Networking

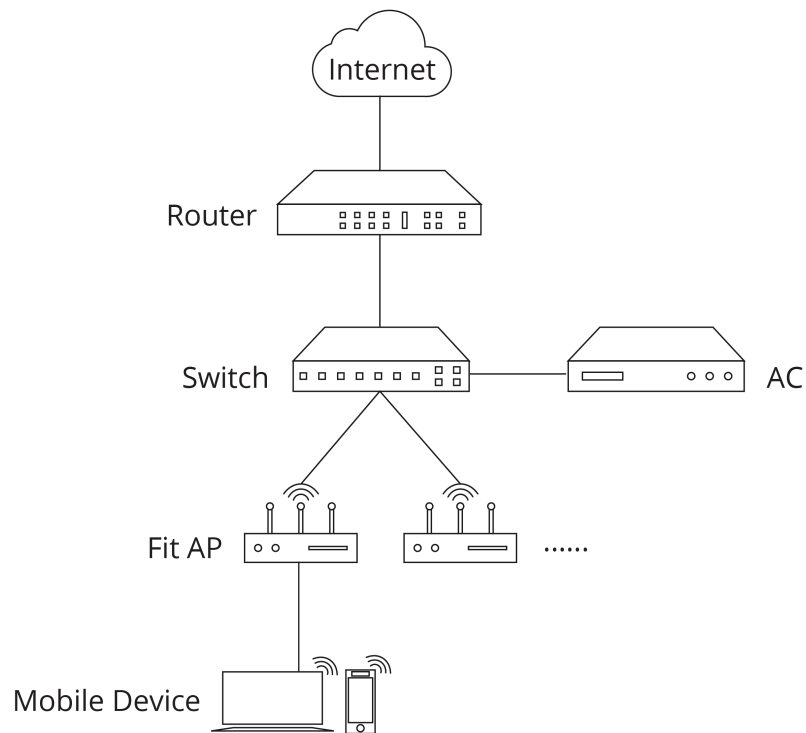
FAT AP

In the below networking, the AP-T567 works as a fat AP to complete user access, authentication, data security, service forwarding, and QoS.



FIT AP

In the below networking, the AP-T567 works as a fit AP to bearer bridge forwarding function, and the functions of user access, AP online, authentication, routing, AP management, security protocol, and QoS are completed by the AC.



Technical Specification

Wi-Fi 6 access point comes with advanced hardware architecture design. Here's a look at the details.

CHARACTERISTICS

	AP-T567
Ports	
Service Port	1x 10/100/1000M RJ45, 1x1G SFP
Console Port	1x RJ45 Console port
Key Components	
AP Chip	BCM47622
DRAM	512MB
Flash Memory	128MB
Radio Specifications	
2.4GHz Operating Bands	802.11b/g/n/ax, 2.4GHz~2.483GHz;
5GHz Operating Bands	802.11a/n/ac/ax: 5.150~5.350GHz, 5.47~5.725GHz, 5.725~5.850GHz; (vary depending on different countries)
MIMO	2.4G 11ax/5G 11ax: 2x2 MIMO, 5G 11ax: 2x2 MIMO
Spatial Streams	2.4GHz: 2x2:2, 5GHz 2x2:2
Antenna	Directional Antenna
Antenna Gain	2.4GHz: 9dBi, 5GHz: 9dBi
Coverage Radius	Directional Distance 150m
Power	
Power Supply	IEEE 802.3af PoE, DC 48V/0.35A
Power Consumption	<12.95W
Transmit Power	28dBm
Adjustable Power	1dBm
Physical and Environmental	
Installation Mode	Wall/Pole Mounting
Bluetooth	Bluetooth 5.0
Protection Class	IP68
Network Bridge	Support single point/point-to-multipoint/multi-level bridging
Lightning Protection Level	Common mode +/-9kV

CHARACTERISTICS

AP-567	
Mechanical Impact Protection Class	IK09
Dimensions (HxWxD)	2.51"x6.61"x9.88" (64x168x251mm)
Operating Temperature	-40°C to 65°C
Storage Temperature	-40°C to 85°C
Operating Humidity	0% to 100% (non-condensing)
Storage Humidity	0% to 100% (non-condensing)
Warranty	
Warranty	3 Years

FEATURES

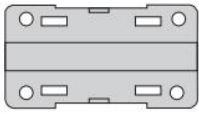
Functionality	Description
	<ul style="list-style-type: none"> 802.11ax/a/b/g/n/ac Maximum throughput per AP: 2400Mbps Max number of users: 1024 Recommended number of users: 64 Virtual AP service: The whole machine can be divided into a maximum of 32 / single RF 16 SSID hiding Configuring the authentication mode, encryption mechanism and VLAN attributes for each SSID Remote Intelligent Perception Technology (RIPT) Intelligent device recognition technology Intelligent load balancing based on the number of users or traffic
	<p>Number of users limit</p> <ul style="list-style-type: none"> Support SSID-based user number limit Support RF card-based user limit
	<p>Bandwidth limitation</p> <ul style="list-style-type: none"> Speed limit based on STA/SSID/AP
	<p>Fat/Fit mode switching</p> <ul style="list-style-type: none"> When working in fit (thin) mode, it can be switched to fat mode by AC series wireless controller When working in fat mode, it can be switched to fit mode through local control port or telnet mode

WLAN

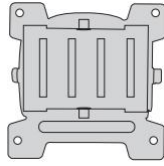
FEATURES

Functionality	Description
Security Features	<ul style="list-style-type: none"> • Data encryption: WPA (TKIP), WPA-PSK, WPA2 (AES), WEP (64/128 bits) • PSK and web authentication • Data frame filtering: whitelist, static blacklist, dynamic blacklist • Support user isolation • Illegal AP detection and countermeasures • Dynamic ACL issuance • RADIUS protocol • CPU Protection Policy (CPP) • Network Foundation Protection Policy (NFPP)
Routing Switching	<ul style="list-style-type: none"> • IPv4: static IPv4 address and DHCP to obtain IPv4 address • Multicast to unicast • PPPoE client • IPsec VPN • FTP ALG/DNS ALG
Management and Maintenance	<ul style="list-style-type: none"> • Managed via wireless LAN controller: AC-1004/ AC-7072 wireless controller • Management protocol: Telnet, TFTP, Web • Wireless location: RBIS • Wireless marketing: WMC/MCP • Fault detection and alarm • Information statistics and logs

Accessories



Bracket Components x1



Bracket x1



Anchor Ears x2



Dust Cover x3



Waterproof Joint for PoE&Power Ports x2



Waterproof Joint for LC Fiber Optic Cable x1



M6 Screw Bolts x4



M5 Screws x4



M6 Screws x2



Grounding Cable x1

Ordering Information

ID	Description
149655	1167 Mbps 2x2 MU-MIMO Dual Radios Gigabit Access Point
115392	1775 Mbps 2x2 MU-MIMO Dual Radios Gigabit Access Point
108705	2400 Mbps 2x2 MU-MIMO Dual Radios Gigabit Access Point
149657	2400 Mbps 2x2 MU-MIMO Dual Radios Gigabit Outdoor Access Point
149658	2400 Mbps 2x2 MU-MIMO Dual Radios Gigabit Outdoor Access Point
149656	3000 Mbps 2x2 MU-MIMO Dual Radios Gigabit Access Point
115391	3267 Mbps 2x2 MU-MIMO Three Radios Gigabit Access Point
115390	4134 Mbps 2x2 MU-MIMO Four Radios Gigabit Access Point
108707	6817 Mbps 4x4 MU-MIMO Three Radios Gigabit Access Point
115389	10 Gbps 4x4 MU-MIMO Three Radios Gigabit Access Point
141375	Wireless LAN Controller with 64 AP License
108708	Wireless LAN Controller with 224 AP License
149659	Wireless LAN Controller with 1152 AP License

Note: AC-1004/AC-7072 can manage all APs on the website, except three Wi-Fi 5 APs: FS-AP733C, FS-AP1167C, FS-AP3000C;
AC-224AP can manage all Wi-Fi 6 APs on the website, except three APs: AP-T565, AP-T567 and AP-N505.



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