

FS-AC32 WIRELESS LAN CONTROLLER DATASHEET

Wireless LAN Controller with 32 Wi-Fi 5 AP License



Overview

The Wi-Fi 5 FS-AC32 is a wireless controller product for high-speed wireless networks. They are mainly used in small and medium-sized wireless LANs, providing powerful WLAN access control and RF management functions, managing up to 32 Wi-Fi 5 access points to achieve integrated access to wired and wireless users.

The FS-AC32 integrates more QoS, security features to comprehensively improve the overall quality of service of the wireless network and make multi-service bearing more reliable and stable. In addition, and real-time monitoring and control of the RF environment of each AP, to achieve automatic adjustment of AP power, channel, and load balancing strategy based on the number of users or traffic, minimizing the interference to the wireless signal and making the load capacity of the wireless network balanced and stable.

Benefits

- Manage up to 32 Wireless APs
- Manage up to 1280 Clients
- Layer 2 or Layer 3 Network
- Automatic RF/SSID Switching
- Intelligent terminal identification and BYOD
- WEB Management (Smart WEB)
- Enhanced QoS

Key Features

Smart Wireless Experience

- **Intelligent Load Balancing**

The Wireless Controller Series intelligently distributes users among different APs according to the number of users and data traffic in real-time on a high-density wireless LAN. This feature balances the load pressure on each AP and improves the average bandwidth and Quality of Service (QoS), offering higher network availability.

- **Automatic RF/SSID Switching**

The FS-AC32 supports regular switching of wireless RF and SSID signals. It enables the FS-AC32 to automatically turn on or off wireless RF and SSID signals according to the set time. So it can switch on and off wireless network functions on its own at regular intervals without the involvement of an administrator in its daily work.

High Performance and Reliability

- **Intelligent Terminal Identification and BYOD**

Smart terminal identification technology can intelligently identify user devices and adapt to different size pages, eliminating the need for users to drag and adjust the screen multiple times and providing other Internet policies for different users, providing a more intelligent wireless experience.

- **Intelligent Portal Function**

The FS-AC32 supports Portal Smart Whitelist, which learns to form a pre-authentication safe list of URLs and IP addresses based on the actual environment, making features such as authentication-free access to secure internal networks possible. Supports Portal-aware authentication. Cell phones and other terminals only need to authenticate once, no need to enter the user name password twice, convenient and straightforward, extensively providing the overall solution of humanization.

- **Fit AP Independent Working Mode**

AC series wireless devices in the thin AP mode. If the AP and AC communication is interrupted, the AP will automatically switch to the independent working mode, keeping the original user network. It can access the authentication of new users. After the communication is restored will automatically register to the AC, which the whole user does not perceive.

- **Support Centralized and Distributed Data Forwarding Architecture**

The FS-AC32 can flexibly decide whether wireless terminal data should be forwarded locally or centrally based on industry-leading data technology. AC decides whether the user's network access data should first be centralized to AC for unified control and forwarding or directly into the wired network for local exchange based on the SSID of the network and the planning of user VLANs.

Rich and Comprehensive Management and Maintenance

- **Various Management Methods and Unified Management Platform**

The FS-AC32 supports various management methods such as the command line and can also implement centralized, effective, and low-cost planning, deployment, monitoring, and management of APs across the network.

Key Features

Rich and Comprehensive Management and Maintenance

- **Web Interface Management**

FS-AC32 provides the Web management interface of AC, which can easily handle wireless configuration and operate the wireless network as a whole. The Web interface of AC can manage APs and manage users connected under APs, limiting the speed and restricting users from connecting to the network, which is convenient for operation and maintenance personnel to plan and operate and maintain wireless.

- **Wireless User Access Control**

The FS-AC32 has rich Log information, supports system log display, and can send system logs to the server for recording so that you User-based access control is a significant feature of the AC series wireless controller products; network administrators can be based on their needs for user, SSID-based VLAN division, each VLAN can support different security policies, authentication, encryption, ACL rules, bandwidth control, etc.

- **Convenient Installation and Maintenance**

With the FS-AC32, APs can be plug-and-play. The wireless controller performs the management, control, and configuration tasks of AP devices. The wireless network administrator no longer has to manage and maintain many wireless access points. All the actions such as configuration, firmware upgrade, and security policy update can be done on the wireless controller.

Technical Specification

Wireless LAN Controller comes with advanced hardware architecture design. Here's a look at the details.

CHARACTERISTICS

	FS-AC32
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Ports

Service Port	6 x 10/100/1000M Ports
Console Port	1
USB Port	2

Power

Rated Voltage Range	100V ~ 240V AC; 50/60Hz
Maximum Voltage Range	90V ~ 264V AC; 47/63Hz

Physical and Environmental

MTBF	>30 years (25°C)
Dimensions (HxWxD)	16.92"x9.84"x1.77" (430mmx250mmx45mm)
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-20°C ~ 70°C
Operating Humidity	5% to 95% (non-condensing)
Storage Humidity	0% to 95% (non-condensing)

Warranty

Warranty	3 Years
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FEATURES

Item	Description
	Number of Base Manageable APs: 32
	Maximum Number of Clients: 1280
	Maximum number of DHCP Server Leases: 128K
	Maximum number of DHCP Server Address Pools: 256
Performance	VLAN: 4K
	ACL: 64K
	MAC Address Table: 32K
	ARP Table: 6K

802.11 LAN Protocols

- 802.11, 802.11b, 802.11a, 802.11g, 802.11d, 802.11h, 802.11i, 802.11e, 802.11n, 802.11ac

802.1 LAN Protocols

- 802.1p, 802.1q, 802.1x

CAPWAP Protocols

- Layer 2/Layer 3 network topology between an AP and AC
- Enable an AP to automatically discover an accessible AC
- Enable an AP to automatically upgrade software version from an AC
- Support AP distributed update software version
- Enable an AP to automatically download configurations from an AC
- Network address translation (NAT) traversal
- Support for thin APs working independently when disconnected from AC (HAP)

WLAN

IP Applications

- Ping, TraceRT, DHCP Server, DHCP Client, DHCP Relay, DHCP Snooping, DNS Client, NTP, Telnet, TFTP Client, FTP Client, FTP Server

AAA

- Radius client
- Support authentication server multi-domain configuration
- Support backup authentication server
- Support SSID and user account binding

Item	Description
WLAN	Encryption <ul style="list-style-type: none">Support 64, 128-bit WEP encryptionSupport AES, TKIP encryption and 802.11i multiple key update trigger conditions
	User Isolation <ul style="list-style-type: none">Support Layer 2 forwarding suppression on APsSupport isolation between virtual APs (multiple SSIDs)
	WIDS/WIPS <ul style="list-style-type: none">Support whitelistSupport static blacklist support
	Illegal AP <ul style="list-style-type: none">Support automatic identification and real-time monitoring of wireless illegal APs and STAsSupport attacks on wireless illegal APs and force illegal STAs offline
Security	IP Routing <ul style="list-style-type: none">Support 802.1x authenticationPSK authenticationPortal authenticationSupport WPA, WPA2 standard
	RF Management <ul style="list-style-type: none">Support manual setting of transmitting powerSupport manual and automatic setting of transmit powerSupport manual and automatic setting of working channelSupport AP load sharing based on traffic and number of usersSupport radio frequency interference monitoring and avoidanceSupport periodically shutting down the RF port of specified APsSupport periodic shutdown of specified SSID function
Management	Network Management <ul style="list-style-type: none">Support WEB management (Smart WEB)Import, export and management of AP/AC versionsImport, export and management of user configuration dataAP support personalized group editing and viewingAP's up/down record

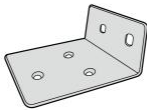
FEATURES

Item	Description
	<ul style="list-style-type: none">Up/down records of STADetection and query of illegal APsSupport log alarm function
	Support Wireless Access Point
	<ul style="list-style-type: none">FS-AP733CFS-AP1167CFS-AP3000C
	BYOD
	<ul style="list-style-type: none">Intelligent identification of terminal type and access control based on terminal type
	Device Management
	<ul style="list-style-type: none">Support console port loginSupport telnet, SSH loginSupport web login

Accessories



Power Cord x1



Mounting Bracket x2

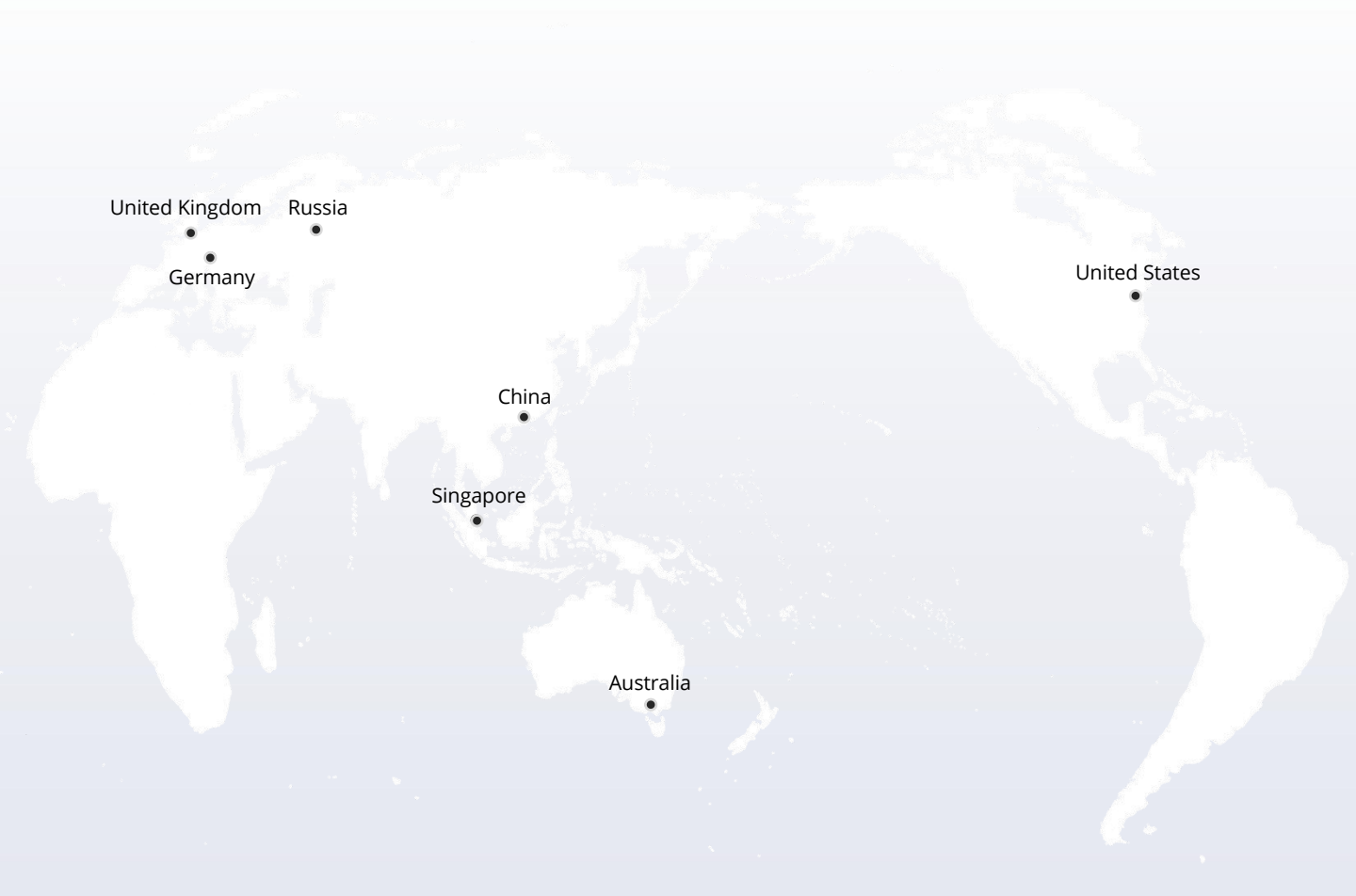


M4 Screw x8

Ordering Information

ID	Description
143356	Wireless LAN Controller with 32 AP License
84026	733Mbps 2x2 MU-MIMO Dual Radios Wireless Access Point
84027	1167Mbps 2x2 MU-MIMO Dual Radios Gigabit Access Point
84028	3000Mbps 4x4 MU-MIMO Three Radios Gigabit Access Point

Note: FS-AC32 only can manage WI-FI 5 APs on the website, including Wi-Fi 5 APs: FS-AP733C, FS-AP1167C, FS-AP3000C.



 <https://www.fs.com>



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