FS

AC-1004 WIRELESS LAN CONTROLLER DATASHEET

Wireless LAN Controller with 64 AP License

Overview

The AC-1004 is a wireless controller product for next-generation 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 64 access points to achieve integrated access to wired and wireless users.

The AC-1004 can break through the three-layer network to maintain communication with the AP. It can be deployed in any layer 2 and layer 3 network structure. And it can achieve seamless roaming of wireless users in the process of crossing different areas of the entire network to meet the security and session integrity of mobile roaming.

Benefits

- Manage up to 64 Wireless APs
- Manage up to 1000 Clients
- Layer 2 or Layer 3 Network
- Automatic RF/SSID Switching
- 802.1x Authentication
- WEB Management (Smart WEB)
- Seamless Roaming Throughout the Network

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 AC-1004 supports regular switching of wireless RF and SSID signals. It enables the AC-1004 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

• Seamless Roaming Across the Network

The Wireless Controller Series can be deployed at Layer 2 or Layer 3 level without modifying the original network architecture. Forming an integrated switching framework with the APs, the controllers easily handle all the AP data exchange management.

Flexible and Complete Scurity Policy

• User Data Encryption Security

The AC-1004 supports a complete data security mechanism, supports WPA, WPA-PSK, WPA2, WPA2-PSK four authentication methods, can support TKIP, and AES encryption technology to ensure the security of wireless network data transmission.

• Standard Communication Protocols

The international standard protocol CAPWAP is used for encrypted communication between AC-1004 and AP, which realizes the isolation from the wired network and ensures the confidentiality of real-time communication. At the same time, the use of the standard CAPWAP protocol can support the control of third-party vendor APs in the future, facilitating the expansion of user networks and protecting user investments to a greater extent.

• Support to Turn Off SSID Broadcast

With the support of the SSID broadcast mechanism, AC-1004 can control the AP to turn off SSID broadcast, thus blocking illegal wireless clients from searching for SSID signal attacks and cracking passwords in the local area.

• User Black and White List

The AC-1004 supports a global black and white list, supports SSID-based user black and white list, without permission users can not be associated to the AC-1004 wireless network, and can better control the scope of the wireless network role, to avoid illegal users wantonly crack, association.

Rich and Comprehensive Management and Maintenance

• Various Management Methods and Unified Management Platform

The AC-1004 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

AC-1004 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.

• Remote Logging

The AC-1004 has rich Log information, supports system log display, and can send system logs to the server for recording so that you can know the detailed operation of the wireless network without worrying about the lack of Log-log information.

Converged Gateway Features

• Support to Turn Off SSID Broadcast

With complex networking and the high cost of single-point networks for small and medium networks, AC-1004 converges essential gateway capability. It supports NAT, PPPOE, and other essential gateway functions.

Technical Specification

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

CHARACTERISTICS

	AC-1004
Ports	
Service Port	5x 10/100/1000BASE-T ports
Console Port	1
USB Port	1
Key Components	
Status Indicators	5 x RJ45 status indicators, PoE light, power light, system light
Reset Button	1
Power	
Power Supply	53.5V/1.2A DC
Power Consumption	≤64.2W (PoE≤56W)
Physical and Environmental	
MTBF (Hours)	250000
Dimensions (HxWxD)	7.87"x4.33"x0.98"(200x110x25mm)
Operating Temperature	-10ºC to 40ºC
Storage Temperature	-40ºC to 70ºC
Operating Humidity	10% to 90% (non-condensing)
Storage Humidity	5% to 95% (non-condensing)
Warranty	
Warranty	3 Years

FEATURES

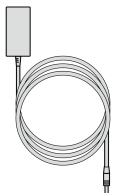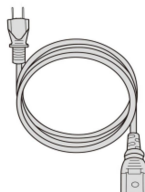| Item	Description
Performance	Number of Base Manageable APs: 64 Maximum Number of Configurable APs: 256 Maximum Number of Clients: 1000 VLAN: 4K ACL: 64K MAC Address Table: 32K ARP Table: 32K Inter-AC Roaming Switch Time: ≤50ms
WLAN	**802.11 LAN Protocols** • 802.11, 802.11b, 802.11a, 802.11g, 802.11i, 802.11e, 802.11n, 802.11ac, 802.11ax **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 **AP Management** • Control the AP to reboot the whole machine at regular intervals • Support password, certificate, MAC, serial number way to ap registration • Support MTU setting and slicing **Roaming** • Support Layer 2 roaming within AC **Forwarding** • Support MTU setting and slicing **User Management** • Access control based on the number of AP users • Access control based on the number of SSID users • Load balancing access control based on the number of AP users

Item	Description
WLAN	**User Management** • Load balancing access control based on AP traffic • Global black and white list • SSID-based black-and-white list • User access RSSI thresholds **Configure STA RSSI Threshold** • 0～100 **Configure STA Idle Timeout** • 60 to 86400 (precision: seconds) **Configure STA Average Rate Threshold** • 8 to 261120KBps **Adjust Beacon and Probe Answer Transmit Power** • Support **RF Management** • Support 5G user priority access • Support radio frequency timing switch
Security	**802.11 Security and Encryption** • Support for multiple SSIDs • Support for hidden SSIDs • Support 802.11i standard PSK authentication • Support WPA, WPA2 standard
IP Protocol	**IPv4 Protocol** • Ping, Traceroute • DHCP Server • DHCP Client • DNS Client • SNTP • Telnet • TFTP Client

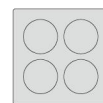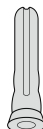| Item	Description
IP Protocol	**IPv4 Routing** • Static routing
Management	**Network Management Platform** • Support WEB management (Smart WEB) **User Access Management** • Support Telnet login **Support Wireless Access Point** • AP-W6D1775C • AP-W6D2400C • AP-W6T3267C • AP-W6Q4134C • AP-W6T6817C • AP-W6T10000C

Accessories

Power Adapter x1

Power Cord x1

Rubber Pad x1

M3 Screw x2

Screw Expansion Tube x2

Ordering Information

ID	Description
141375	Wireless LAN Controller with 64 AP License
108708	Wireless LAN Controller with 224 AP License
108704	AP-W6D2400C, Wi-Fi 6 802.11ax 2400 Mbps Wireless Access Point, Seamless Roaming & 2x2 MU-MIMO Dual- Band, Manageable via FS Controller or Standalone (PoE Injector Included)
108706	AP-W6T6817C, Wi-Fi 6 802.11ax 6817 Mbps Wireless Access Point, Seamless Roaming & 4x4 MU-MIMO Tri-Band, Manageable via FS Controller or Standalone (PoE Injector Included)
115392	AP-W6D1775C, Wi-Fi 6 802.11ax 1775 Mbps Wireless Access Point, Seamless Roaming & 2x2 MU-MIMO Dual- Band, Manageable via FS Controller or Standalone (PoE Injector Included)
115391	AP-W6T3267C, Wi-Fi 6 802.11ax 3267 Mbps Wireless Access Point, Seamless Roaming & 2x2 MU-MIMO Tri-Band, Manageable via FS Controller or Standalone (PoE Injector Included)
115390	AP-W6Q4134C, Wi-Fi 6 802.11ax 4134 Mbps Wireless Access Point, Seamless Roaming & 2x2 MU-MIMO Quad- Band, Manageable via FS Controller or Standalone (PoE Injector Included)
115389	AP-W6T10000C, Wi-Fi 6 802.11ax 10 Gbps Wireless Access Point, Seamless Roaming & 4x4 MU-MIMO Tri-Band, Manageable via FS Controller or Standalone (PoE Injector Included)

United Kingdom

Russia

Germany

United States

China

Singapore

Australia

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