



WFAC6100-128

Enterprise Intelligent Wireless AC



Overview

- WFAC6100-128 is a wireless access controller with high performance and high reliability, which are invented by CXR on the basis of the multi-core hardware platform, and characteristic of versatile functions, various services and stability.
- WFAC6100-128 supports CAPWAP protocol, strong WLAN access control capability, automatic channel management, wireless radio frequency adjustment, user load balance, and user roaming .
- Besides, WFAC6100-128 supports varies of web portal authentications. such as local, guest, SMS, SNS, etc.

Integrated service

AC/Portal/Gateway three-to-one
Contact Network Structure
Cost-effective

Simple operation

Simple configuration
Simple maintenance
Simple faulty recovery

User-friendly design

Wireless one-key configuration
Batch turning on/off LED
Green energy saving

Product Characteristics

Seamless Roaming Characteristics

WFAC6100-128 supports multiple networking modes including centralized forwarding and local forwarding. WFAC6100-128 also supports layer-2 and layer-3 roaming function. In the centralized forwarding mode the roaming domain is not affected by the network IP plan, so that the user only needs to concentrate on the wireless coverage but not the topology. Such feature not only facilitates the user, but also reduces the threshold of network plan and construction.

All-round QoS Mechanism

WFAC6100-128 supports packet classification, flow control, DSCP flow schedule, end-to-end QoS mapping, 802.11e, load balance and reception control.

Centralized and Secure Access of Wireless Networks

WFAC6100-128 supports following functions which ensure centralized and safe network access: WEP/ WPA/802.1x, wireless IPS/IDS, Layer-2 user isolation, centralized ACL control, 802.1x/ MAC/ Portal/ PPPoE/ WAPI authentication, illegal AP detection and processing, wireless attack prevention, white list and blacklist, which greatly reduce shocks over wireless network from illegal users.

Diversified Connecting and Authentication Interface

WFAC6100-128 supports Portal2.0 and WiFidog interface, which can realize functions including flexible networking, authentication and content pushing service. These interfaces lay a firm foundation for constructing wireless cities and commercial WiFi.

System Performance

Interface	
Port	1-Port Console(RJ45) 1-Port USB2.0 1-Port Gigabit RJ45/SFP combo WAN 8-Port Gigabit RJ45 LAN
Button	Mode/Reset
Performance	
User capacity	3K
AP capacity	128~256
Flash	4GB
DRAM	1GB
DHCP Table	2K
ARP Table	10K
VLAN	4K
Appearance	
Chassis	Size (WxDxH) (mm): 440x180x44 Weight (kg) (empty): 2.3
Package	Size (WxDxH) (mm): 500x320x80 Weight (kg) (empty): 3.3
Power supply	AC 100~240V 50/60Hz
Consumption	No*load (W): 12 Full-load (W): 20
Working Temperature	0 °C~50 °C
Operating humidity	10%~90% (non-condensing)

Technical Specifications

IP protocol

- Direct IP connection, static route
- DHCP Server/Client/Relay
- NTP Server
- FTP Server
- L2 or L3 forwarding between AC and external network

AC function

- Switching load from troubled AC to another normal AC (The switch over policy can be set)
- Port redundancy: multi-port binding
- Connecting AP/AC via L3 security tunnel
- Centralized, distributive and hybrid exchanges of L2 services
- Inner-AC or inter-AC roaming
- Centralized forwarding
- Forwarding all services after being centralized on AC
- Distributive forwarding
- Forwarding some AP or SSID services on a thin AP locally
- RTLS

Standard

- 802.11 a/b/g/n/ac/ax
- 802.11g, 802.11d, 802.11h,
- 802.11i, 802.11e,
- 802.3, 802.3ab, 802.3u,
- 802.3x, 802.3z, ARP, Reverse ARP,
- multi-LAN ARP/Proxy ARP
- STP/802.1Q L2 forwarding
- RFC791 IP, RFC792 ICMP, RFC793 TCP, RFC768 UDP,
- RFC854 Telnet, RFC1542 BOOTP,
- RFC1191 Path MTU Discovery,
- Supports the \STA-based automatic transmitting power to improve the throughput.
- Automatic rate
- Supports the STA-based automatic rate choice.
- Supports to limit the maximum transmitting rate

AAA

- RADIUS Client
- Multi-domain configuration of the authentication server
- Connection of active and standby authentication/charging servers
- Isolation of the authentication server and the charging server
- PPPoE authentication
- Portal authentication
- AAA accounting

Security

- Open system
- WEP
- WPA/WPA2 PSK
- 802.1x
- 802.11i
- WAPI



- DDOS prevention
- ACL
- Wireless IPS/IDS
- Illegal AP detection
- Illegal terminal checkup
- Isolation of users' services
- Whitelist
- Static/dynamic blacklist
- URL filter
- IEEE802.11b
- ISO/IEC 8802-11:1999/Amd 1:200
- MIB that is defined by IEEE 802.11g and IEEE 802.11i

QoS

- User's flow control:
- Supports the domain-based flow control (taking VLAN or SSID as the configuration domain).
- Supports user-level flow control or flow control based on the contract information of the Radius server.
- Service priority:
- Supports 802.11e, which provides different services according to session's priority.
- Supports to map users' QoS levels according to SSID.
- Supports 802.1p and L2 packet's priority mapping
- Load balance and control:
- Supports AP/AC interconnection based on priority and load.
- Supports load balance between adjacent APs on the basis of user quantity and flow.

RF management

- Automatic channel
- Supports static channel configuration.
- Supports automatic channel configuration when AP is powered.
- Supports automatic channel configuration when AP is running.
- Supports to set an automatic channel choice list.
- Automatic transmitting power
- Supports to set the static transmitting power.
- Supports the automatic transmitting power for coverage remedy.

Ordering Information

Reference	Designation
WFAC6100-128	Enterprise Intelligent AC Controller (1 Console, 1 GE-Combo, 8 GE-LAN, Maximum 128 APs, 220VAC power supply)



CXR
T +33 (0) 237 62 88 00
www.cxr.com

17 rue de l'Ornette 28410 Abondant France
contact@cxr.com

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