DATASHEET AP-WLC7045

16Gigabit Ports with 8 SFP Ports + 4*10SFP + 1*Console Port

PRODUCT OVERVIEW

The AP-WLC7045 is a high-performance smart wireless access controller (AC) for medium wireless networks, which can manage up to 1024 access points (Aps). It provides complete RF management and security mechanism, powerful QoS, seamless roaming and complete control of APs, can be used to construct medium-sized network for campus, hotel, enterprise office, hospital, etc.

With hardware ASIC, AP-WLC7045 could support line-rate forwarding of IPv4/IPv6 data packets and support dynamic routing protocols such as RIP, OSPF, BGP and PIM, as well as Ipv6 RIPng, OSPFv3 and PIM6. It also integrates Ethernet switch function, and provides unified access control for wired and wireless users. It offers 16 GE combo ports, 8 fixed SFP ports, and 4* 10G SFP+ ports.



KEY FEATURES AND HIGHLIGHTS

Wired-and-wireless Unified and High-Reliability Network Combination of routing switch and wireless AC:-

The WLC7045 can be used as a routing switch and a wireless access controller simultaneously in a trunk deployment mode, with an ASIC-based forwarding architecture and high-density access-ports, it can provide line-speed forwarding for both wired and wireless traffic.

High-reliability backup mechanism:-

The WLC7045 supports the following high-reliability backup mechanisms to ensure that a wireless network runs reliably:

- N+1 backup
- N+M backup

1+1 modular redundant input power:-

The WLC7045 supports two modular AC input power, which provides 1+1 input power redundancy.

Automatic emergency mechanism of APs:-

This mechanism enables an AP to intelligently detect a link between AC and AP. When detecting the breakdown of the link the AP quickly switches its operating mode so that it can continue to forward data and allow new users to access the network. This mechanism makes sure that the access is available for all users when the AC is down.

Intelligent Control of Wireless Network

Intelligent RF management:-

The WLC7045 provides an automatic power and channel adjustment function. It employs particular RF detection and management algorithms to attain a better RF coverage effect. When the signals of an AP are interfered with by strong external signals, the AP may automatically switch to an appropriate operating channel under the control of the AC to avoid such interference. It also supports the blackhole compensation mechanism, which adjusts the AP power to cover the blind area resulted by the crashing of some APs

Intelligent control of terminals based on airtime fairness:-

This function makes sure that both the low-rate and the high-rate clients get relatively the same accessing time, which can avoid the low-rate clients to affect the AP overall performance by taking up too much accessing time.

Intelligent load balancing mechanism:-

In general, a wireless client will select an AP according to the signal strength of APs. So, it may happen that one AP connected a large number of APs while the others connected very little, causing the small bandwidth for each client. The AirPro load balancing mechanism can overcome this problem by:

- Load balancing between APs based on traffic
- Load balancing between APs based on the number of users
- Load balancing between radios within the AP based on the number of users

Intelligent identification of terminals:-

The WLC7045 can identify a terminal in different ways by combining with AirPro smart APs and a unified authentication platform. It can identify the OS of a terminal, such as Apple iOS, Android, and windows, the size of a terminal, and the type of a terminal, such as mobile phone, laptop, and PC. Basing on these identifications, WLC7045 can implement dynamic policies for different types of terminal and present a corresponding-sized authentication page.

PEAP user authentication:-

Protected Extensible Authentication Protocol (PEAP) authentication can provide a better user experience. The user needs to manually enter the username and passwords only during the first-time certification, the second time, and the subsequent certifications are performed automatically.



Simple | Secure | Trusted



Secure and Controllable Wireless Network

User isolation policy:-

The WLC7045 supports the isolation of wireless users. If this user isolation function is enabled, only the communication between the clients and gateway is allowed, the direct communication between clients is forbidden, which can increase the security of the wireless network.

Wireless intrusion detection and intrusion defense:-

The WLC7045 supports wireless intrusion detection and intrusion defense features, such as detection of unauthorized wireless devices, intrusion detection, blacklist, and white list, as well as anti-DoS for various wireless management packets, thereby greatly improving security management of an entire wireless network.

Secure user admission:-

The WLC7045 provides multiple secure access, authentication, and accounting mechanisms for various application environments. These mechanisms include:

- 802.1x authentication
- Captive portal authentication, including built-in portal, and custom portal authentication modes

- MAC address authentication
- LDAP authentication
- WAPI encryption and authentication
- Wired/wireless integrated authentication and accounting

Easy-to-Manage Wireless Network

AP plug-and-play:-

When used with the WLC7045, AirPro smart APs support plugand-play and zero configuration. WLC7045 undertakes all the management, control, and configuration of the APS. Network administrators do not need to separately manage or maintain a huge number of wireless APs.

Remote probe analysis:-

The WLC7045 supports remote probe analysis of APs. It enables the APs to captures Wi-Fi packets and mirrors them to a local analysis device in real-time to help network administrators troubleshooting or optimizing the network. The remote probe analysis function can perform analysis of a single working channel continuously or all channels in a polling mode to flexibly meet various wireless network monitoring requirements.

PRODUCT SPECIFICATIONS

Hardware Specifications

Dimensions(L*W+H) 440mmx350mmx44mm; 19 inches, 1 U high, supporting rack installation Switching capacity 208 Gbps 16 GE combo ports (GE/SFP) Service port 8 GE SFP ports 4 10G SFP+ ports Management port 1 console port (RI-5), 1 out-of-band management port, 1 USB port Power supply 2 power slots, 1-14 Modular Redundancy Power consumption 90 W Working/Storage RH 0% to 90% (non-condensing) Software Specifications 32 of manageable APs 1024 fundament of manageable APs 64 Auximum number of manageable 64 Acs in a cluster 104 and management post
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ACs in a cluster
AP upgrade step 16, 32, 128
Maximum number of 60k
concurrent wireless users
VLANs 4K
ACL 4K
MAC address list 32K
ARP table 16K
Switching time during roaming < 30 ms
IEEE802.3 (10Base-T), IEEE802.3u (100Base-TX), IEEE802.3z (1000BASE-X),
IEEE802.3ab (1000Base-T), IEEE802.3ae (10GBase-T)
IEEE802.3ak (10GBASE-CX4), IEEE802.1Q (VLAN)
IEEEE802.1d (STP), IEEEE802.1W (RSTP), IEEEE802.1S (MSTP)



PRODUCT SPECIFICATIONS

Hardware Specifications

Item	AP-WLC7045	
L2 protocols and standards	IEEE802.1p (COS)	
	IEEE802.1x (Port Control), IEEE802.3x (Flow Control)	
	IEEE802.3ad (LACP), Port Mirror	
	IGMP Snooping, MLD Snooping	
	QinQ, GVRP, PVLAN	
	Broadcast storm control	
12 meteorals and standards	Static Routing	
L3 protocols and standards	RIPv1/v2, OSPF, BGP, VRRP, IGMP v1/v2/v3	
	ARP, ARP Proxy	
	PIM-SM, PIM-DM, PIM-SSM	
Wireless protocols and standards	802.11, 802.11a, 802.11b, 802.11g, 802.11n, 802.11d, 802.11h, 802.11i, 802.11e, 802.11k	
	Supports L2/L3 network topology between an AP and an AC.	
CAPWAP protocol	Enables an AP to automatically discover an accessible AC.	
	Enables an AP to automatically upgrade its software version from an AC.	
	Enables an AP to automatically download configurations from an AC.	
IPv6 protocols and standards	IPv4/v6 dual-stack, manual tunnel, ISATAP, 6to4 tunnel, IPv4 over IPv6 tunnel, DHCPv6, DNSv6, ICMPv6, ACLv6, TCP/UDP	
	for IPv6, SOCKET for IPv6, SNMP v6, Ping /Traceroute v6, RADIUS, Telnet/SSH v6, FTP/TFTP v6, NTP v6, IPv6 MIB support	
	for SNMP, VRRP for IPv6, IPv6 QoS, static routing, OSPFv3, IPv6 SAVI	
High reliability	N+1 backup	
	N+N backup	
	Setting country codes	
	Manually/automatically setting the transmit power	
	Manually/automatically setting the working channel	
	Automatically adjusting the transmission rate	
	Blind area detection and repair	
	RF environment scanning, which enables a working AP to scan the surrounding RF environment	
	RF interference detection and avoidance	
	11n-preferred RF policy	
	SSID hiding	
	20 MHz and 40 MHz channel bandwidth configuration	
	Airtime protection in hybrid access of 11bg and 11n terminals	
	Terminal-based airtime fairness scheduling	
RF management	Terminal locating (A terminal locating algorithm can be embedded in the AC)	
	Spectral navigation (5 GHz preferred)	
	11n only	
	SSID-based or Radio-based limit on the number of users	
	User online detection	
	Automatic aging of traffic-free users	
	Prohibiting the access of clients with weak signals	
	Remote probe analysis	
	64/128 WEP, dynamic WEP, TKIP, CCMP, and SMS encryption	
	802.11i security authentication and two modes (Enterprise and Personal) of 802.1x and PSK	
	WAPI encryption and authentication	
	LDAP authentication	
	MAC address authentication	
	Portal authentication, including built-in portal, external portal, and custom portal authentication modes	
	PEAP user authentication	
	Forwarding security control, such as frame filtering, white list, static blacklist, and dynamic blacklist	
	User isolation	
Security	Periodic Radio/SSID enabling and disabling	
,	Access control of free resources	
	Secure admission control of wireless terminals	
	Access control of various data packets such as MAC, IPv4, and IPv6 packets	
	Secure access control of APs, such as MAC authentication, password authentication, or digital	
	certificate authentication between an AP and an AC	
	Radius Client	
	Backup authentication server	



PRODUCT SPECIFICATIONS

Hardware Specifications

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Hardware watchdog AC cluster management; automatic information synchronization between ACs in a cluster, and automatic or manual push of configuration information			
AC cluster management; automatic information synchronization between ACs in a cluster, and automatic or manual push of configuration information		Dual-image (dual-OS) backup	
and automatic or manual push of configuration information		Hardware watchdog	
		AC cluster management; automatic information synchronization between ACs in a cluster,	
SSID-based user permission management mechanism		and automatic or manual push of configuration information	
· · · · · · · · · · · · · · · · · · ·		SSID-based user permission management mechanism	

ORDER INFORMATION

Product	Description	Remarks
AP-WLC7045	AirPro Intelligent Access Controller (default with 32 units AP license,	
	support controlling max. 1024 APs, support N+1, N+N redundancy)),	Mandatory
	16*GbE Combo (SFP/RJ45) +8*1000M SFP ports+4*10GbE SFP+ ports,	
	two modular power, default with one AC power.	
AP-L16	Upgrade license of the AirPro wired/wireless integrated smart AC	Optional
	(for upgrading 16 APs, a minimum number of upgrade step is 16 APs)	
AP-L32	Upgrade license of the AirPro wired/wireless integrated smart AC	Optional
	(for upgrading 32 APs, a minimum number of upgrade step is 32 APs)	
AP-L128	Upgrade license of the AirPro wired/wireless integrated smart AC	Optional
	(for upgrading 128 APs, a minimum number of upgrade step is 128 APs)	
AP-S6200-AC-A	AC Power Supply Module (150W) for AP-WLC7045 100V-240V, could be	Optional
	purchased alone as an accessory	



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