



Huawei AirEngine 9500-L1P Wireless Access Controller Datasheet

Product Overview

The AirEngine 9500-L1P is a small-capacity box wireless access controller (AC) for small and medium enterprises. It can manage up to 32 access points (APs) and integrates the GE Ethernet switch function, achieving integrated access for wired and wireless users. It supports two GE electrical ports and eight GE PoE+ electrical ports. It also supports forwarding capability 8 Gbit/s. It can be deployed at access layer of small network or desktop access at SOHO sites. Quickly build a cost-effective gigabit-to-the-desktop network.



Product Features

Service features

Feature	Description
Interface	Support for VLANs Supports jumbo frames. Supports port UP/DOWN detection and port auto-negotiation. Supports VLANIF interface
Ethernet	16 VLANs. Access, trunk, and hybrid access modes Port-based VLAN assignment Automatic learning of MAC addresses. Automatic MAC address aging. Static MAC address entries MAC address filtering
IPv4 Unicast	Static routes
WAN optimization	Load balancing based on terminal IP address and connection
User access	DHCP server/client, DNS client, PPPOE client, NAT, ACL
Device management	WEB network management Support SSH
Device diagnosis	Support Ping, Tracert, one-click diagnosis

Wireless networking capabilities

Feature	Description
Networking between APs and WLAN ACs	<p>APs and WLAN ACs can be connected through a Layer 2 network.</p> <p>APs can be directly connected to a WLAN AC.</p> <p>APs are deployed on a private network, while WLAN ACs are deployed on the public network to implement NAT traversal.</p> <p>WLAN ACs can be used for Layer 2 bridge forwarding or Layer 3 routing.</p>
WLAN AC discovery	<p>An AP can obtain the device's IP address in any of the following ways:</p> <ul style="list-style-type: none"> • Static configuration • DHCP • DNS • The WLAN AC uses DHCP to allocate IP addresses to APs. <p>On a Layer 2 network, APs can discover the WLAN AC by sending broadcast CAPWAP packets.</p>
AP access control	<p>Displays MAC addresses or SNs of APs in the whitelist.</p> <p>Adds a single AP or multiple APs (by specifying a range of MAC addresses or SNs) to the whitelist.</p> <p>Automatically discovering and manually confirming APs.</p> <p>Automatically discovering APs without manually confirming them.</p>
Radio profile management	<p>The following parameters can be configured in a radio profile:</p> <ul style="list-style-type: none"> • Radio working mode and rate • Automatic or manual channel and power adjustment mode • Radio calibration interval • The radio type can be set to 802.11b, 802.11b/g, 802.11b/g/n, 802.11g, 802.11n, 802.11g/n, 802.11a, 802.11a/n, 802.11ac, or 802.11ax. <p>You can bind a radio to a specified radio profile.</p> <p>Supports MU-MIMO.</p>
Unified static configuration of parameters	<p>Radio parameters such as the channel and power of each radio are configured on the WLAN AC and then delivered to APs.</p>
Address allocation of wireless users	<p>Functions as a DHCP server to assign IP addresses to wireless users.</p>
WLAN user management	<p>Supports user blacklist and whitelist.</p> <p>Controls the number of access users:</p> <ul style="list-style-type: none"> • Based on APs • Based on SSIDs <p>Logs out users in any of the following ways:</p> <ul style="list-style-type: none"> • Using RADIUS DM messages • Using commands <p>Supports various methods to view information:</p> <ul style="list-style-type: none"> • Allows you to view the user status by specifying the user MAC address, AP ID, radio ID, or WLAN ID. • Displays the number of online users in an ESS, AP, or radio. • Collects packet statistics on air interface based on user.
WLAN user roaming	<p>Supports intra-AC Layer 2 roaming.</p>
Authentication modes	<p>Open system authentication with no encryption.</p> <p>WPA/WPA2/WPA3 authentication and encryption:</p>

Feature	Description
	<ul style="list-style-type: none"> • WPA-PSK+TKIP • WPA/WPA2-PSK+TKIP/CCMP • WPA2/WPA3-PSK/SAE+CCMP • WPA3-SAE+CCMP

Product Specifications

Feature	Description
Number of managed APs	32
Number of access users	512
Egress bandwidth	2 Gbit/s
Fixed WAN port	2 x 10/100/1000BASE-T ports
Fixed LAN port	8 x 10/100/1000BASE-T ports
MAC address entry	2K
Dimensions without packaging (H x W x D)	210mm * 130mm * 35mm
Chassis height	1U
Weight without packaging [kg(lb)]	1.5 kg
Power module type	Power adapter
Rated input voltage	AC input: 100V AC ~ 240V AC; 50/60Hz
Input voltage range	AC input: 90V AC ~ 290V AC; 47Hz ~ 63Hz
Maximum power consumption	<ul style="list-style-type: none"> • Without PoE: 21.8 W • With PoE: 145.8 W (PoE: 124 W)
Long-term operating temperature [°C(°F)]	0°C to 40°C (32°F to 104°F) at an altitude of 0-1800 m (0-5906 ft.)
Storage temperature	-40° C ~ +70° C
Relative humidity	5% ~ 95% (non-condensing)
Surge protection on service ports	±6kV
Heat dissipation mode	Natural heat dissipation

More Information

For more information about Huawei WLAN products, visit <http://www.huawei.com> or contact Huawei's local sales office.

Copyright © Huawei Technologies Co., Ltd. 2024. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions



HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website: www.huawei.com