Sundray AP-S900 Outdoor Wireless Access Point--(802.11a/b/g/n/ac)

Product Overview

SUNDRAY AP-S900 is an outdoor high-speed wireless access point that supports **802.11a/b/g/n/ac**. AP-S900 adopts 2x2 MIMO technology and supports dual-band concurrence of 802.11ac/a/n and 802.11b/g/n to provide high transmission rate up to **1166 Mbps**. AP-S900 uses Gigabit port for uplink to ensure high-speed wireless transmission and PoE for remote power supply to simplify network deployment.

The shell of AP-S900 is of the **IP 68** protection level and boasts waterproof, damp proof, dustproof, fireproof, and sun protection features. The shell can protect AP-S900 against severe weather and environments (-40 °C-70 °C). This ensures that AP-S900 is applicable to both damp and cold areas. AP-S900 also supports the point-to-point and point-to-multipoint relay bridge function, improving the feasibility of outdoor networking. AP-S900 works with SUNDRAY controllers to provide unprecedented quick access experience and secure service access for users.

AP-S900 provides four N-type external antenna interfaces. omnidirectional antenna or directional antenna can be selected based on the actual environment. It applies to outdoor environments such as scenic spots, schools and parks, squares, etc.





Product Features

SUNDRAY AP-S900

High adaptability

▶ High protection level to cope with severe environments

The shell of AP-S900 is of the IP 68 protection level and boasts waterproof, damp proof, dustproof, fireproof, and sun protection features. The shell can protect AP-S900 against severe weather and environments.

Professional lightning protection design

AP S900 has the professional lightning protection design, adopting the antenna feeder lightning protection technology to protect AP-S900 against lightning strikes. Lightning protection measures are also taken for the Ethernet port to protect the Switch port from lightning strikes.

➢ Wide operating temperature range

AP-S900 can operate properly at a temperature ranging from -40°C to 70°C without compromising the stability and service life. It applies to severe environments in both cold, hot and damp areas.

Flexible network deployment

> Integration of fat and fit modes

AP S900 supports integration of fat and fit modes, can switch flexibly between fat and fit modes, to meet network planning demand.

When wireless network scale is small, customers don't have to use access controllers. Customers only need to set S900 to fat mode, and the AP can work independently. When customers want to expand wireless network to tens or hundreds of APs, customers only need to set mode into fit, then all APs can be managed by sundray access controllers uniformly. Unified configuration and management can decrease managing complexity.

> Flexible external antennas Option

The maximum output power of AP-S900 can reach 500 mW. It is specifically designed for wide wireless coverage outdoors. It can meet wireless coverage requirements in a wide range of outdoor scenarios by deploying omnidirectional or directional antenna. It applies to outdoor environments such as scenic spots, schools and parks, etc.

> WDS wireless relay/bridge

AP-S900 supports WDS, wireless relay bridges, point-to-point, and point-to-multipoint to resolve inconvenience or difficult deployment problems. The WDS function is used to relay and amplify signals for the purpose of extending the wireless coverage scope. The Ethernet port of a wireless relay AP can be connected to a wired switch to extend both wired and wireless LAN coverage scope.

PoE remote power supply

AP-S900 adopts the PoE remote power supply design. A network cable is connected for transmitting data and supplying power to the AP. No power socket needs to be deployed. This shortens the construction time, reduces the construction costs, and avoids strong current threats. In other words, the AP is protected against damage caused by burst over-high voltage or unstable voltage.

Virtual AP technology

A maximum of 32 ESSIDs can be provided by using the virtual AP technology. Different SSIDs use different authentication modes and have different network access permission. The SSIDs are isolated from each other. L2 isolation can be implemented for terminals that use the same SSID on a subnet or VLAN to ensure user data security.

> SSID

An SSID with a maximum of 32 characters can be specified. An SSID can also contain both Chinese and English characters. Individualized SSIDs are available for scenic spots, schools or parks to improve discrimination.

Top-speed wireless network access

> Dual-frequency high-speed access

SUNDRAY AP-S900 complies with the 802.11a/b/g/n/ac standard and adopts the 2x2 MIMO technology. 2.4 GHz RF provides up to 300Mbps, and 5 GHz RF provide a transmission rate high up to 866Mbps, thus the system transmission rate can reach 1166 Mbps, thereby providing high-performance wireless access services in terms of coverage scope, access density and operation stability.

➢ Gigabit uplink

A 10/100/1000Base-T Ethernet port is used as the uplink port, and Gigabit port is used for uplink, ensuring high-speed wireless transmission. If the AP is deployed too far away, the network cable is incapable of transmission. To resolve this problem, an optical-to-electrical conversion module is used to implement fiber transmission.

QoS guarantee

SUNDRAY AP-S900 supports different QoS levels. It supports air interface resource management based on applications, SSIDs or STAs to ensure that air interfaces are appropriately allocated and that the data of important SSIDs and applications is transmitted in preference. Transmission priorities can be defined for different service data through 802.11e/WMM. This ensures smooth wireless access.

> Seamless roaming for L2 and L3

SUNDRAY AP-S900 works with SUNDRAY wireless controller to implement seamless roaming for L2 and L3. When a wireless user roams, the IP address and authentication status remain unchanged. The terminal viscosity prevention function is provided to intelligently guide an STA to the optimal AP, increasing the roaming speed.

All-round security protection

Multiple easy-to-use and secure authentication modes

Multiple flexible, easy-to-use and secure user authentication modes are available. 802.1x, portal, SMS, WeChat, and QR code authentication modes are provided with the support of SUNDRAY wireless controller to meet network deployment requirements in environments including scenic spots, schools and parks, etc.

> All-round wireless security protection

With the support of SUNDRAY wireless controllers, AP-S900 provides a wide range of wireless security protection functions including WIDS/WIPS, illegitimate AP detection, ARP spoofing prevention, and DoS attack prevention, constructing a truly secure and reliable wireless network for users.

Technical specifications

Hardware specifications

Product Specifications of SUNDRAY AP-S900		
Hardware specifications		
Item	Description	
Model	AP-S900	
Dimensions	210 mm x 210 mm x 70 mm	
Ethernet port	A 10/100/1000M Ethernet port	
РоЕ	48 V, 800 mA	
Transmit power	≤ 27 dBm	
Power adjustment granularity	1 dbm	
Power range	3 dBm to the value specified by national regulations	
Power consumption	< 35 W	
Antenna	External antenna	
Antenna interface	Two 2.4 GHz N-type connectors and two 5 GHz N-type connectors	
Reset/restore factory settings	None	
Status indicator	None	
Operating/storage temperature	-40°C to +70°C	
Operating/storage humidity	0%-100% (non-condensing)	
Protection level	IP 68	
MTBF	> 250000 H	

Software specifications

Software specifications			
Item		Description	
Model		AP-S900	
	Streams	2	
	Maximum transmission speed of a	2.4 G: 300 Mbps	
	single frequency	5 G: 866 Mbps	
	Operating frequency band	802.11ac/n/a: 5.725GHz-5.850GHz; 5.15~5.35GHz	
		802.11b/g/n : 2.4GHz-2.483GHz	
	Modulation technology	OFDM: BPSK@6/9 Mbps, QPSK@12/18 Mbps, 16-QAM@24 Mbps,	
DE		64-QAM@48/54 Mbps	
RF		DSSS: DBPSK@1 Mbps, DQPSK@2 Mbps, CCK@5.5/11 Mbps	
		MIMO-OFDM: MCS 0-15 MIMO-OFDM (11ac): MCS 0-9	
	Channel rate	802.11b: 1, 2, 5.5, 11	
		802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54	
		802.11n: 6.5 to 300 (MCS0 to MCS15)	
		802.11n high throughput support: MCS 0-7 HT 20/40	
		802.11ac: MCS 0-9; 20/40/80	

Software specifications		
		802.11a、802.11n、802.11ac (compatible with 802.11a): 13 channels
	Channel quantity	802.11b, 802.11g, 802.11n (compatible with 802.11b/g mode): 13
		channels
	Manual and automatic channel	
	adjustment	Supported
	Automatic power adjustment	Supported
		The AP supports manual power adjustment with an adjustment granularity
	Manual power adjustment	of 1 dBm. The power scope is from 1 dBm to the value specified by
		national regulations.
	Timed turning on or off of RF	RF can be turned on or off based on the specified time period.
	Turn off MIMO	Supported. An RF interface can be selected for single output.
	Maximum number of connected users	256 (maximum number of connected users of a single RF: 128)
	Connected user quantity restriction	Supported
	Virtual AP	32
	Chinese SSID	Supported
	SSID hiding	Supported
WLAN	Wireless relay/bridge	Point-to-point and point-to-multipoint supported
function	User-, traffic-, and frequency	Tome to point and point to manipoint supported
	band-based intelligent load balancing	Supported
	Bandwidth restriction	STA-, SSID-, or AP-based rate limiting is supported.
	24.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	Abnormal STA disconnection detection, STA aging detection, and STA
	STA function	statistic and status query are supported.
	Link integrity detection	Supported
	Zam megany december	Pre-shared key authentication, portal authentication, 802.1x
		authentication, CA certificate authentication, WeChat authentication, SMS
	Authentication mode	authentication, 2-dimensional code authentication, temporary visitor
		authentication, and authentication exemption are supported.
	Pre-shared key	WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK hybrid authentication
		Intelligent terminal type identification is supported. A page matching the
		terminal size is pushed to terminals. The page logo and displayed
	Portal authentication	information can be customized. In addition, the verification,
		authentication interval, and reconnection authentication time thresholds
Security		can be set.
authentication	802.1x authentication	802.1x one-key configuration and 802.1x perception-free authentication
		are supported. You only need to download the one-key automatic
		configuration tool at initial access and finish wireless network
		configuration quickly. This simplified network deployment significantly.
	CA certificate authentication	High-security certificate authentication can be implemented by using the
		CA certificate issuance center embedded into the controller, without the
		need to constructing a certificate server. Authentication by using a
		certificate imported from an external certificate server is also supported.
	WeChat authentication	After access the wireless network, a user can scan the 2-dimensional code

Software specifications		
		of the shopping mall or enterprise and follow the public account to access
		the Internet. The one-key follow function can be easily deployed without
		any code development. In WeChat authentication, a user can access the
		network by clicking a text message network access link or clicking the
		menu bar to view advertisements, or access the network via WeChat
		authorization.
		SMS authentication takes effect forever. That is, a user can directly access
	SMS authentication	the network without authentication after being authenticated via SMS at
		initial access. This reduces the SMS costs and improves user experience.
		After a visitor terminal accesses the wireless network, the terminal will
		automatically display a 2-dimensional page. The approver scans the
		2-dimensional code of the visitor terminal via a cell phone and then the
	2-dimensional code authentication	visitor can access the Internet. The visitor information is recorded in three
		dimensions: approver, remarks, and MAC address of the visitor terminal.
		This ensures user traceability and network security.
		A temporary user information management system is embedded. A
		temporary user can log in within the validity period and cannot after the
		validity period elapses. A secondary permission system for temporary
	Temporary visitor authentication	account management is embedded and temporary accounts can be created
		and managed in this system. The 2-dimensional code of a temporary
		visitor can be printed and the temporary visitor can scan the 2-dimensional
		code to access the network. Temporary visitors can be grouped.
		Only a portal advertisement page is displayed. A user needs to click the
	Authentication exemption	login button to access the network without entering any account password
	•	or performing other authentication.
	Data encryption	Data encryption via TKIP and AES (CCMP) is supported.
	Blacklist and whitelist	Static whitelist and blacklist are supported.
	Diacklist and wintelist	SSID-based isolation, automatic VLAN grouping, and user isolation of
	User isolation	specified VLANs are supported.
	WIPS	Supported Supported:
	Illegitimate AP detection and	Supported
	workaround	Supported
	workaroung	Account-, access location-, access terminal type- and SSID-based ACL
	ACL	policy assignment and management are supported.
	Radius protocol	
	radius protocor	Supported Acceleration can be performed for the application layer. The acceleration
	Application lover1ti	Acceleration can be performed for the application layer. The acceleration
	Application layer acceleration	service application can help increase the transmission speed by 1.5 to 4
Wireless	E-schoolbag scenario optimization	The transmission around of multipast replicate is increased improving the
optimization		The transmission speed of multicast packets is increased, improving the
	Intelligent broadcast acceleration	effects of the E-schoolbag scenario in an all-round way.
		The transmission speed of broadcast packets is automatically increased
		based on the actual environment, thereby improving the transmission

Frominal dragging prevention Terminal dragging prevention This function aims to prevent the decrease of the entire network speed caused by low-speed terminals based on the time fairness algorithm. This function involves detecting STAs connected to APs and intelligently guiding the STAs to the optimal AP. Prohibited access of low-speed terminals Prohibited access of low-speed terminals This speed of access terminals is limited. Weak-signal terminals with a speed lower than the specified value are prohibited from accessing the network. This improves the entire network speed. ARP-unicast conversion The response to broadcast probe requests is controlled for the purpose of optimization optimization appears to broadcast probe requests is controlled for the purpose of optimizing high-density access seenarios. ARP broadcast packets are converted into unicast packets. This reduces the number of broadcast packets, thereby improving the transmission speed. ARP-based access user quantity The number of broadcast packets, thereby improving the transmission speed. AP-based access user quantity The number of connected users and change trends of each AP in the recent one day, one week, and one month can be measured. AP-based signal quality analysis AP-based signal quality analysi	Software specifications		
Terminal dragging prevention caused by low-speed terminals based on the time fairness algorithm. This function involves detecting STAs connected to APs and intelligently guiding the STAs to the optimal AP. Prohibited access of low-speed terminals is limited. Weak-signal terminals with a speed lower than the specified value are prohibited from accessing the network. This improves the entire network speed. High-density access scenario optimization ARP-unicast conversion ARP broadcast packets are converted into unicast packets. This reduces the number of broadcast packets hereby improving the transmission speed. ARP broadcast packets are converted into unicast packets. This reduces the number of broadcast packets hereby improving the transmission speed. ARP broadcast packets are converted into unicast packets. This reduces the number of broadcast packets hereby improving the transmission speed. ARP-broadcast packets are converted into unicast packets. This reduces the number of broadcast packets are converted into unicast packets. This reduces the number of broadcast packets thereby improving the transmission speed. ARP broadcast packets thereby improving the transmission speed. ARP brased access user quantity statistics AP-based access user quantity statistics AP-based access user quantity statistics AP-based access traffic analysis statistics AP-based application and point to entework access traffic and change trends of each AP in the recent one day, one week, and one month can be measured. The network access traffic and change trends of each AP in the recent one day, one week, and one month can be measured. AP-based signal quality analysis Statistic analysis for the signal usage, noise, retransmit rate, BIR, and BER change trends of each AP is supported. L2 broadcast automatic discovery DNS domain name discovery Tunnel encryption Relay frequency band Point-to-point and point-to	_		efficiency of broadcast packets.
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AP access mode AP deployment Cross-WAN and cross-NAT remote AP deployment Controller IP addresses can be dynamically discovered by using the webAgent technology. This avoids AP disconnection caused by unfixed controller IP addresses. Tunnel encryption Supported Relay mode Relay mode Relay frequency band Disable wireless network on relay frequency band Supported 2.4/5.8 GHz Supported Supported Supported Supported Point-to-point and point-to-multipoint supported Supported Supported			DHCP Option43 discovery
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Wireless relay/bridge Relay frequency band 2.4/5.8 GHz Disable wireless network on relay frequency band Supported		Tunnel encryption	Supported
Wireless relay/bridge Disable wireless network on relay frequency band Supported		Relay mode	Point-to-point and point-to-multipoint supported
relay/bridge Disable wireless network on relay frequency band Supported	N	Relay frequency band	2.4/5.8 GHz
			Supported
		Wireless backhaul service	Supported

Ordering Information

Model	Specifications	Remarks		
SUNDRAY AP-S900 series				
	AP-S900 series APs provide a protection level IP	el IP		
	68 and supports 802.11a/b/g/n/ac, two streams, a			
AP-S900	maximum access rate of 1166 Mbps, Gigabit uplink	Essential		
	port, and PoE power supply (to be purchased			
	independently).			
Optional parts	Optional parts			
ANT-2400-8dBi-O-N-P1	2.4 GHz (8 dBi) omnidirectional antenna, N-type	Optional		
ANT-2400-00DI-O-N-11	connector x 1	Optional		
ANT-5800-10dBi-O-N-P1	5 GHz (10 dBi) omnidirectional antenna, N-type	Optional		
71117 3000 10451 3 1111	connector x 1	Optional		
	2.4 GHz (14 dBi)/5 GHz (14 dBi) dual-frequency			
ANT-2451-14dBi-D-N-P4	dual-polarized directional antenna, N-type	Optional		
	connector x 4			
ANT-5158S-26dBi-D-N-P1	5.8 GHz (26 dBi) grid parabolic directional	Optional		
711.17 61608 204 B1 B 11.11	antenna, N-type connector x 1	- Priorius		
CAB-RF-1M-LL-N	1 m outdoor waterproof WLAN RF cable	Optional		
CAB-RF-2M-LL-N	2 m outdoor waterproof WLAN RF cable	Optional		
CAB-RF-5M-ULL-N	5 m outdoor waterproof WLAN RF cable	Optional		
TB2360-N-FM	Outdoor antenna/feeder lightning arrester for APs	Essential		
HHX1000RJ45-1	Outdoor network port lightning arrester for APs	Essential		
GRT-560110A	Outdoor high-power PoE injector for APs	Essential		





Sundray Technologies Company Ltd.

Add: Building A1, i Park, No.1001 Xueyuan Road, Nanshan District, Shenzhen, Guangdong Province, P. R.

China Post | Post Code: 518055 **Service hot line:** +86-755-86725911

Web: www.sangfor.com; www.sundray.com E-mail: liaohaibo@sundray.com

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