300Mbps High Power Outdoor AP

AIR LAKSHYA

- High Power 300Mbps AP/Client.
- 14dBi antenna.
- WPA/WPA2 encryptions for defence against security threats.
- Seamlessly compatible with 802.11b/g/n devices.
- Supports 24V/1A PoE.
- Compatible with Major Base station in Client Mode.

DATASHEET

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OVERVIEW

AirPro Air Lakshya is a 300Mbps high power outdoor CPE/AP. It Complies with IEEE 802.11b/g/n standard and adopts Qualcomm QCA9531 chipset. It comes with 14dBi dual polarized high gain antenna, 500mW/27dBm high power, transmit/receive wireless distance can be of more than 3000 meters.

It supports Wireless AP, Gateway, WISP, Wireless Bridge, WDS operation mode which makes it an effective solution for PTP, PTMP application and outdoor long range Wi-Fi coverage application. Moreover, it has WDS button on case for switching the connection between PTP/PTMP modes. Also, it includes reset button, which eliminates the need of accessing product GUI.

Air Lakshya comes with ABS waterproof, dust proof and sunscreen shell, temperature adaptive and board protective; meantime, it supports Power over Ethernet and passive PoE. Ideal for outdoor use; easy to setup in areas where power socket are not readily available.

Besides that, Air Lakshya uses LED signal light to show the strength of the signal, so finding a suitable place for this outdoor CPE is easy, then firmware comply with the AC controller System and Cloud Management System, helpful in central management and data setting, to implement Advertisement and authentication function, also saves human work and cost, which makes it a professional outdoor wireless networking solution.

TECHNICAL SPECIFICATIONS

Hardware	
Wireless	802.11N, 2T2R 300M MIMO Technology
Memory	64MB DDR2 RAM (128MB optional)
Flash	8MB(16MB optional)
Interface	2 10/100 Mbps RJ45 Port, support 12~24V PoE 1 Reset Button 1 DC Jack, 12V Power Supply
Antenna	14dBi Panel Antenna
LED Light	POWER WI-FI WAN LAN S1(GPIO9) S2(GPIO14) S3(GPIO11) S4(GPIO12)
Size	L 257mm, W: 87mm, H: 38 mm
Power	POE 24V/1A

TECHNICAL SPECIFICATIONS

RF Data			
RF Data	802.11b/g/n: 2.4~2.4835GHz Korea Japan, ETSI, FCC		
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM DSSS = DBPSK, DQPSK, CCK		
Data Rate	300 Mbps		
Receive Sensitivity	802.11n(2.4GHz) -90dBm @ MCS0 -72dBm @ MCS7 -90dBm @ MCS8 -68dBm @ MCS15	802.11g - 90dBm @ 6Mbps - 72dBm @ 54Mbps	802.11b - 95dBm @ 1Mbps - 90dBm @ 11Mbps
RF Output Power	802.11n(2.4GHz)(± 1.5dBm) 28dBm@ MCS0~2/MCS8~10 28dBm @ MCS3/MCS11 27dBm @ MCS4/MCS12 27dBm @ MCS5/MCS13 26dBm @ MCS6/MCS14 26dBm @ MCS7/MCS15	802.11g(± 1.5dBm) 28dBm @ 6~24Mbps 27dBm @ 36Mbps 27dBm @ 48Mbps 26dBm @ 54Mbps	802.11b (±1.5dBm) 28dBm @1~11Mbps

Software	
Operation Mode	Wireless AP, Client
Protocol/Standard	IEEE 802.3(Ethernet) IEEE 802.3u(Fast Ethernet) IEEE 802.11b/g/n(2.4G WLAN)
Wireless	Auto-Channel selection Distance Control (802.1x Ack timeout) Multiple SSID (4 SSID) BSSID
Security	WEP Encryption-64/128/152 bit WPA/WPA2 Personal (WPA-PSK using TKIP or AES) WPA/WPA Enterprise (WPA-EAP using TKIP) Hide SSID
System Setting	Web-based configuration (HTTP/Telnet)
Firmware upgrade	Upgrade firmware via web browser or TFTP
Administration	Admin Password can be configured
System monitoring	Status in hand , useful statistic and Event log
Log	Supports local logs, logs host, logs file export
Reset	Reset or factory defaults
Backup	Restore settings & configuration of the device to local file

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TECHNICAL SPECIFICATIONS

Antenna Data	
Frequency range (MHZ)	2400 ~ 2500
Polarization	Vertical and Horizontal
Gain (dBi)	2×14
Half-power beam width (°)	H: 65 V: 30
Front-to-back ratio (dB)	≥25
Input Impedance (Ω)	50
VSWR	≤1.5
Isolation between ports	≥28dB
Cross-polar ratio	≥15dB@0º ≥10dB@+/-60º
Side lobe suppression for first side lobe above horizon	15 dB
Maximum input power (W)	200

Physical Property	
Temperature	Working: 0°C~55°C
	Storage: -20°C to 70°C
Humidity	5%~95% (typical)

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