

# 300Mbps High Power Outdoor AP

## PRODUCT 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.



## MAIN FEATURES

- 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.

## PRODUCT SPECIFICATIONS

### Hardware Specifications

<b>Item</b>	<b>AIR LAKSHYA</b>		
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		
<b>RF Data</b>			
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)	802.11g	802.11b
	-90dBm @ MCS0	- 90dBm @ 6Mbps	- 95dBm @ 1Mbps
	-72dBm @ MCS7	- 72dBm @ 54Mbps	- 90dBm @ 11Mbps
	-90dBm @ MCS8		
RF Output Power	-68dBm @ MCS15		
	802.11n(2.4GHz)(± 1.5dBm)	802.11g(± 1.5dBm)	802.11b (±1.5dBm)
	28dBm @ MCS0~2/MCS8~10	28dBm @ 6~24Mbps	28dBm @ 1~11Mbps
	28dBm @ MCS3/MCS11	27dBm @ 36Mbps	
	27dBm @ MCS4/MCS12	27dBm @ 48Mbps	
	27dBm @ MCS5/MCS13	26dBm @ 54Mbps	
	26dBm @ MCS6/MCS14		
26dBm @ MCS7/MCS15			
<b>SOFTWARE</b>			
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		
<b>Antenna Data</b>			
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@0° ≥10dB@+/-60°		
Side lobe suppression for first	15 dB		
Side lobe above horizon			
Maximum input power (W)	200		
<b>Physical Property</b>			
Temperature	Working: 0°C-55°C Storage: -20°C to 70°C		
Humidity	5%~95% (typical)		



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