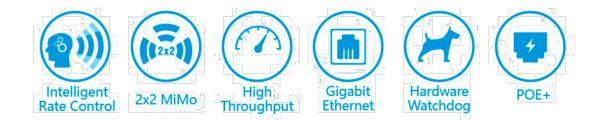
AL8K WIRELESS BRIDGE DATASHEET

SUNUAVE

AL8K

802.11 a/b/g/n/ac Dual-band Outdoor High-performance AP





SUNWAVE

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KEY FEATURES

- Supports 802.11a/b/g/n/ac standard
- The highest transmission rate is 867 Mbps (5G) & 300 Mbps (2.4G)
- Outdoor coverage: 5G: 0 ~ 5 km, 2.4G: 0 ~ 150 m
- Integrated antenna, quick installation
- Built-in advanced technology
- Supports bridge and router modes. Network architecture can be flexibly deployed by adjusting the network mode of devices
- Intelligent QoS wireless multimedia optimization technology, providing high priority transmission levels for voice and video
- Supports firmware backup. The mechanism can prevent the device from stopping work in extreme conditions
- Supports web page management, making installation and maintenance of equipment more convenient
- Supports wireless controller (AC) management, realize remote centralized configuration and upgrade management
- Supports 802.3at protocol (POE+)
- IP66

*Wireless controller needs to be purchased separately

HARDWARE

HARDWARE				
Dimensions	160 x 160 x 55 mm 6.30 x 6.30 x 2.17 in			
Weight	0.48 kg 1.09 lbs			
Installation	Pole mounting Diameter ≤ 55 mm Diameter ≤ 2.17 in			
Protection Level	IP66			
Antenna Gain	2.4G: 3dBi, 5G: 17dBi			
Power Supply	48V POE+/ DC 48V			
Max Power Consumption	12W			
Average Power Consumption	9W			
CPU	IPQ4028			
DDR & Memory	256MB DDR3L, 32MB Flash			
Physical Interface	2*10/100/1000Mbps			
Indicator Light	1 x 2.4G Work Indicator 1 x 5G Work Indicator 3 x Signal Strength Indicator			
Maximum Transmitted Power	2.4G: 27dBm 5G: 27dBm			
Working Temperature	-40 °C ~ +65 °C -40 °F ~ +149 °F			
Storage Temperature	-40 °C ~ +85 °C -40 °F ~ +185 °F			
Working Humidity	5 ~ 95% RH Non-condensing			
Surge	POE/GE: CM 4KV, DM 2KV			
ESD Protection	Contact 6KV, Air 8KV			
Wind Survivability	134 km/h			

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SOFTWARE						
Protocol	802.11a/b/g/n/ac					
Frequency	 2.4G: 2412~2472 MHz (China) 2412~2462 MHz (United States) 2412~2472 MHz (Most Countries) 5G: 5180~5320 MHz, 5745~5825 MHz (China) 5180~5320 MHz, 5500~5720 MHz, 5745~5825 MHz (United States) 5160~5340 MHz, 5480~5720 MHz, 5745~5865 MHz (India) 5160~5340 MHz, 5480~5720 MHz, 5745~5825 MHz (United Arab Emirates) 5745~5805 MHz (Indonesia) * The above frequencies need specific version support 					
Operating Mode	AP, Station, WDS AP, WDS Station					
Security	WPA2-PSK, Hidden SSID, IP/MAC Filtering					
Network Mode	bde Bridge/ Router					
Management	Supports Web/AC/SNMP					
Other	Timed restart, Supports VLAN, QoS, Watchdog					

RF PARAMETERS								
Transmit Power				Receive Sensitivity				
	Rate	Power	Tolerance	Rate	Sensitivity	Tolerance		
	1 Mbps	24dBm	+/- 2dBm	1 Mbps	-96dBm	+/- 2dBm		
	11 Mbps	24dBm	+/- 2dBm	11 Mbps	-89dBm	+/- 2dBm		
	6 Mbps	24dBm	+/- 2dBm	6 Mbps	-97dBm	+/- 2dBm		
116/-/-	54 Mbps	22dBm	+/- 2dBm	54 Mbps	-73dBm	+/- 2dBm		
11b/g/n	HT20 MCS0 (joint road)	27dBm	+/- 2dBm	HT20 MCS0	-91dBm	+/- 2dBm		
	HT20 MCS7 (joint road)	24dBm	+/- 2dBm	HT20 MCS7	-71dBm	+/- 2dBm		
	HT40 MCS0 (joint road)	27dBm	+/- 2dBm	HT40 MCS0	-89dBm	+/- 2dBm		
	HT40 MCS7 (joint road)	24dBm	+/- 2dBm	HT40 MCS7	-68dBm	+/- 2dBm		
	6 Mbps	24dBm	+/- 2dBm	6 Mbps	-91dBm	+/- 2dBm		
	54 Mbps	22dBm	+/- 2dBm	54 Mbps	-73dBm	+/- 2dBm		
	HT20 MCS0 (joint road)	27dBm	+/- 2dBm	HT20 MCS0	-91dBm	+/- 2dBm		
11a/n	HT20 MCS7 (joint road)	24dBm	+/- 2dBm	HT20 MCS7	-70dBm	+/- 2dBm		
	HT40 MCS0 (joint road)	27dBm	+/- 2dBm	HT40 MCS0	-88dBm	+/- 2dBm		
	HT40 MCS7 (joint road)	24dBm	+/- 2dBm	HT40 MCS7	-68dBm	+/- 2dBm		
	VHT20 MCS0 (joint road)	27dBm	+/- 2dBm	VHT20 MCS0	-91dBm	+/- 2dBm		
11ac	VHT20 MCS8 (joint road)	23dBm	+/- 2dBm	VHT20 MCS8	-67dBm	+/- 2dBm		
	VHT40 MCS0 (joint road)	27dBm	+/- 2dBm	VHT40 MCS0	-87dBm	+/- 2dBm		

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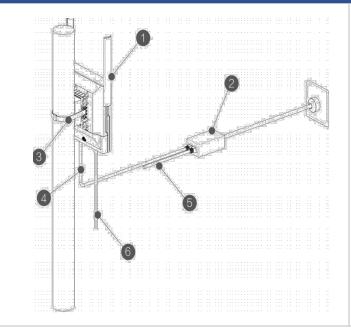
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VHT40 MCS9 (joint road)	23dBm	+/- 2dBm	VHT40 MCS9	-64dBm	+/- 2dBm
VHT80 MCS0 (joint road)	27dBm	+/- 2dBm	VHT80 MCS0	-85dBm	+/- 2dBm
VHT80 MCS9 (joint road)	23dBm	+/- 2dBm	VHT80 MCS9	-60dBm	+/- 2dBm

DIMENSIONS AND INTERFACE



INSTALLATION

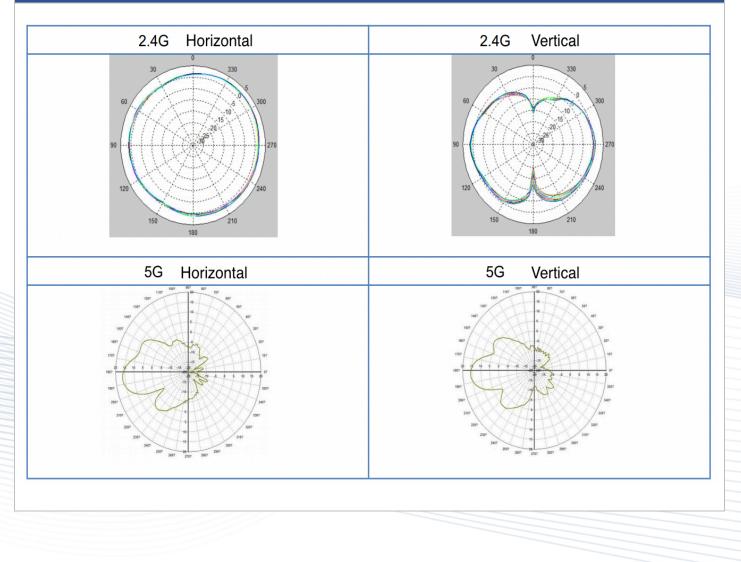


- 1. AP Main Device
- 2. POE Adaptor
- 3. Ноор
- 4. The POE port of POE adaptor should connect to the POE port on the main
- 5. The LAN port of POE adaptor can be connected with the other devices.
- 6. The LAN1 port on the main device can be connected with the other devices

*The actual installation height needs to be determined according to the transmission distance and the installation environment, and there is no obstruction between the two points.

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ANTENNA POLAR PLOT



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