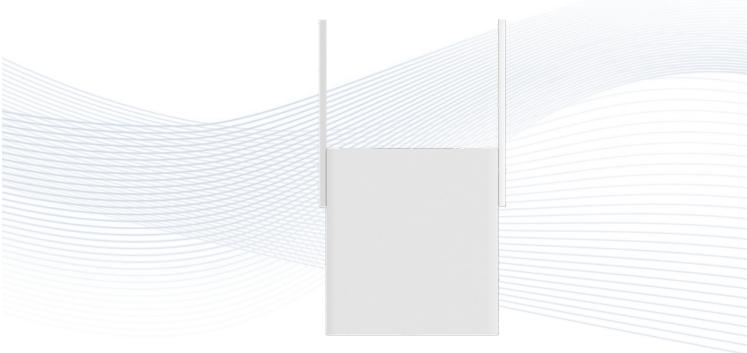
#### AL8K WIRELESS BRIDGE DATASHEET

## 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
- Support 802.3at protocol (POE+)
- IP66

\*Wireless controller needs to be purchased separately

HARDWARE	
Dimensions	160 mm x 160 mm x 55 mm   6.30 in x 6.30 in 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	15W
Average Power Consumption	12W
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	Bridge/ Router
Management	Support Web/AC/SNMP
Other	Timed restart, Support VLAN, QoS, Watchdog

<b>RF PARAM</b>	ETERS					
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
11 - 1-	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
11-1-	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 (join)	27dBm	+/- 2dBm	VHT20 MCS0	-91dBm	+/- 2dBm
11ac	VHT20 MCS8 (joint road)	23dBm	+/- 2dBm	VHT20 MCS8	-67dBm	+/- 2dBm
	VHT40 MCS0 (combined)	27dBm	+/- 2dBm	VHT40 MCS0	-87dBm	+/- 2dBm

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

# DIMENSIONS AND INTERFACE

INSTALLATION

	<ol> <li>The POE port of POE adaptor should connect to t POE port on the main</li> <li>The LAN port of POE adaptor can be connected w the other devices.</li> <li>The LAN1 port on the main device can be connect with the other devices</li> </ol>
6	*The actual installation height needs to be determin according to the transmission distance and the installati environment, and there is no obstruction between t

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