

## AL6L WIRELESS BRIDGE DATASHEET

# SUNWAVE

## AL6L

802.11a/n/ac Outdoor dual band wireless base station



TDMA



Intelligent  
Rate Control



ACK Time-out  
Adjustment



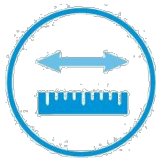
2x2 MIMO



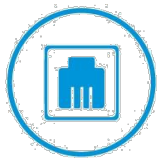
High  
Throughput



Point-to-  
Multi-Point



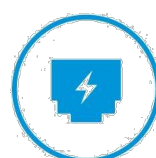
Long Distance  
Coverage



Gigabit  
Ethernet



Hardware  
Watchdog



POE+

## AL6L WIRELESS BRIDGE DATASHEET

## KEY FEATURES

- Supports 802.11a/n/ac standard
- The highest transmission rate is 1.7Gbps
- External antenna (optional)
- 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

<b>Dimensions</b>	200 mm x 200 mm x 50 mm   7.87 in x 7.87 in x 1.97 in
<b>Weight</b>	1.2 kg   2.10 lbs
<b>Installation</b>	Pole mounting 30 mm ≤ Diameter ≤ 50 mm   1.18 in ≤ Diameter ≤ 1.97 in
<b>Protection Level</b>	IP66
<b>Power Supply</b>	48V POE+
<b>Max Power Consumption</b>	15W
<b>Average Power Consumption</b>	12W
<b>CPU</b>	IPQ4029
<b>DDR &amp; Memory</b>	512MB DDR3L, 32MB Flash
<b>Physical Interface</b>	1*10/100/1000Mbps, 1*1000Base-X SFP
<b>Maximum Transmitted Power</b>	27dBm
<b>Working Temperature</b>	-40 °C ~ +70 °C   -40 °F ~ +158 °F
<b>Storage Temperature</b>	-40 °C ~ +85 °C   -40 °F ~ +185 °F
<b>Working Humidity</b>	5 ~ 95% RH Non-condensing
<b>Surge</b>	POE/GE: common mode 4KV, differential mode 2KV
<b>ESD Protection</b>	Contact 6KV, Air 8KV
<b>Wind Survivability</b>	150 km/h

## AL6L WIRELESS BRIDGE DATASHEET

SOFTWARE	
Protocol	802.11a/n/ac
Frequency	5180~5320 MHz, 5745~5825 MHz (China) 5180~5320 MHz, 5500~5720 MHz, 5745~5825 MHz (United States) 5160~5340 MHz, 5480~5720 MHz, 5745~5865MHz (India) 5160~5340 MHz, 5480~5720 MHz, 5745~5825MHz (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
Network Mode	Bridge
Management	Supports Web/AC
Other	Timed restart Supports VLAN, QoS, Watchdog

RF PARAMETERS						
Transmit Power				Receive Sensitivity		
	Rate	Power	Tolerance	Rate	Sensitivity	Tolerance
11a/n	6 Mbps	23dBm	+/- 2dBm	6 Mbps	-91dBm	+/- 2dBm
	54 Mbps	19dBm	+/- 2dBm	54 Mbps	-73dBm	+/- 2dBm
	HT20 MCS0 (joint road)	26dBm	+/- 2dBm	HT20 MCS0	-91dBm	+/- 2dBm
	HT20 MCS7 (joint road)	21dBm	+/- 2dBm	HT20 MCS7	-70dBm	+/- 2dBm
	HT40 MCS0 (joint road)	25dBm	+/- 2dBm	HT40 MCS0	-87dBm	+/- 2dBm
	HT40 MCS7 (joint road)	21dBm	+/- 2dBm	HT40 MCS7	-68dBm	+/- 2dBm
11ac	VHT20 MCS0 (joint road)	26dBm	+/- 2dBm	VHT20 MCS0	-91dBm	+/- 2dBm
	VHT20 MCS8 (joint road)	20dBm	+/- 2dBm	VHT20 MCS8	-66dBm	+/- 2dBm
	VHT40 MCS0 (joint road)	25dBm	+/- 2dBm	VHT40 MCS0	-87dBm	+/- 2dBm
	VHT40 MCS9 (joint road)	19dBm	+/- 2dBm	VHT40 MCS9	-62dBm	+/- 2dBm
	VHT80 MCS0 (combined)	25dBm	+/- 2dBm	VHT80 MCS0	-84dBm	+/- 2dBm
	VHT80 MCS9 (joint road)	19dBm	+/- 2dBm	VHT80 MCS9	-58dBm	+/- 2dBm

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## DIMENSIONS AND INTERFACE



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