AL5KP-18I WIRELESS BRIDGE DATASHEET

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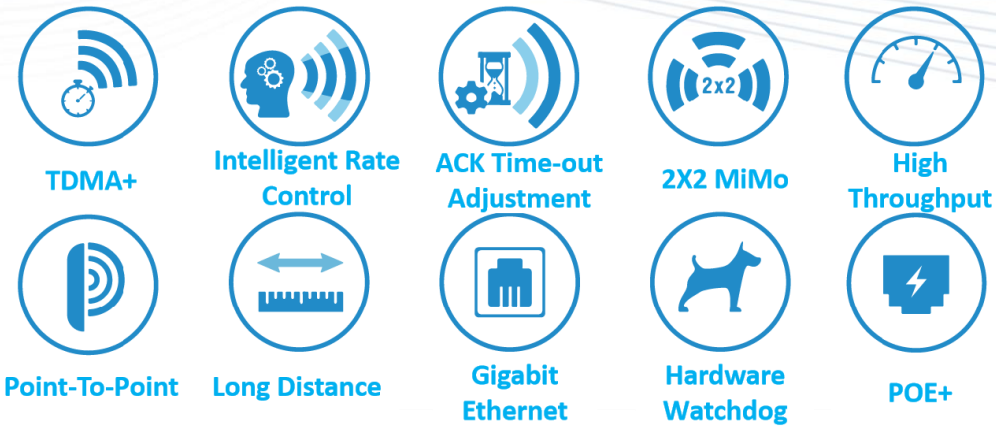
AL5KP-18I

802.11a/n/ac 5G Industrial Grade
5 km Long-distance Wireless Transmission Device
867 Mbps Maximum Transmission Rate



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AL5KP-18I WIRELESS BRIDGE DATASHEET

KEY FEATURES

- Supports 802.11a/n/ac standard
- The highest transmission rate is 867 Mbps
- Outdoor coverage: 0 ~ 5 km
- 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	
Host Size	200 mm × 200 mm x 50 mm | 7.87 in × 7.87 in × 1.97 in
Net Weight	1.3 kg |2.14 lbs
Installation Method	Pole mounting diameter ≤ 48 mm | diameter ≤ 1.89 in
Protection Level	IP66
Antenna Gain	18dBi
Antenna Beam Width	H: 35 ° V: 17 °
Power Supply	48V POE+
Maximum Power Consumption	15W
Average Power Consumption	12W
Processor	IPQ4028
RAM	256MB DDR3L, 32MB Flash
Network Interface	2*10/100/1000Mbps
Maximum Transmit Power	27dBm
Operating Temperature	-40 ℃ ~ 70 ℃ | -40 ℉ ~ 158 ℉
Storage Temperature	-40 ℃ ~ 85 ℃ | -40 ℉ ~ 185 ℉
Working Humidity	5 ~ 95% RH non-condensing
Surge Immunity	POE / GE: common mode 4KV, differential mode 2KV
Electrostatic Discharge Immunity	Contact discharge: 4KV, air discharge: 6KV
Wind Resistance	150 km/h

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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, 5745~5865 MHz (India) 5160~5340 MHz, 5480~5720 MHz, 5745~5825 MHz (United Arab Emirates) 5745~5805 MHz (Indonesia) Non-standard channel support： 4920 ~ 6060 MHz * 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	Supports Web/AC/SNMP
Other	Timed restart, Support VLAN, QoS, Watchdog

RF PARAMETERS						
Transmit Power				**Receive Sensitivity**		
	Rate	**Power**	**Tolerance**	**Rate**	**Sensitivity**	**Tolerance**
11a/n	6 Mbps	24dBm	+/- 2dBm	6 Mbps	-91dBm	+/- 2dBm
	54 Mbps	22dBm	+/- 2dBm	54 Mbps	-73dBm	+/- 2dBm
	HT20 MCS0 (joint road)	27dBm	+/- 2dBm	HT20 MCS0	-90dBm	+/- 2dBm
	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
11ac	VHT20 MCS0 (join road)	27dBm	+/- 2dBm	VHT20 MCS0	-90dBm	+/- 2dBm
	VHT20 MCS8 (joint road)	23dBm	+/- 2dBm	VHT20 MCS8	-67dBm	+/- 2dBm
	VHT40 MCS0 (joint road)	27dBm	+/- 2dBm	VHT40 MCS0	-87dBm	+/- 2dBm
	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

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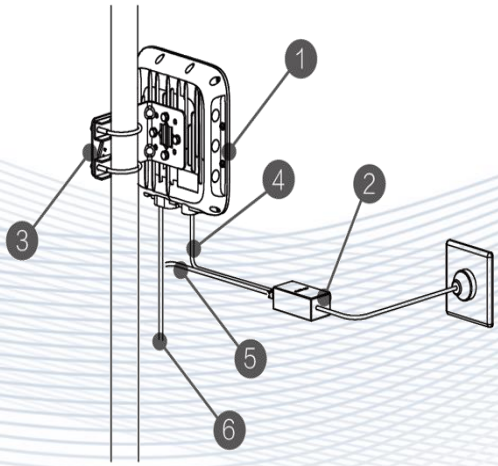
DIMENSIONS AND INTERFACE

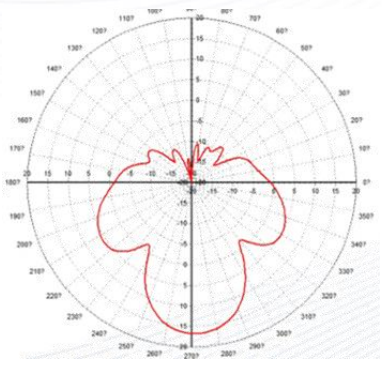
INSTALLATION



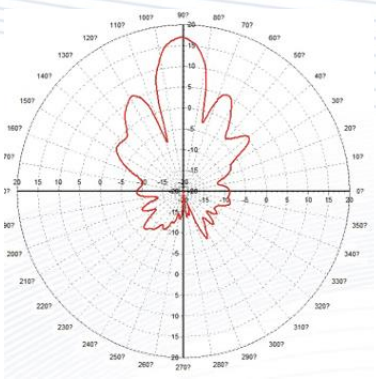
1. Wireless Transmission Device
2. POE Adaptor
3. Hoop
4. The POE port of POE adaptor should connect to the POE port on the main device
5. The LAN port of POE adaptor can be connected with the other devices
6. The LAN1 port on the main device can be connected with the other devices

*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.

ANTENNA POLAR PLOT



Horizontal



Vertical

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