

TB5M

802.11a/n/ac 5G industrial grade, long-distance, outdoor high-performance bridge



TDMA+



Intelligent
Rate Control



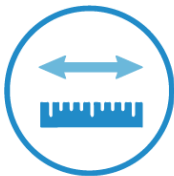
ACK Time-out
Adjustment



2x2 MiMo



High
Throughput



Long Distance
Coverage



Point-to-Point



Hardware
Watchdog



Gigabit
Ethernet



POE+



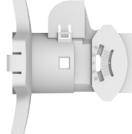




Release Notes

Date	Version Number	Editor	Change log	Remarks
2020-05-07	V1.0	Guifang	Create	
2020-09-25	V1.1	Guifang	Modify power consumption	

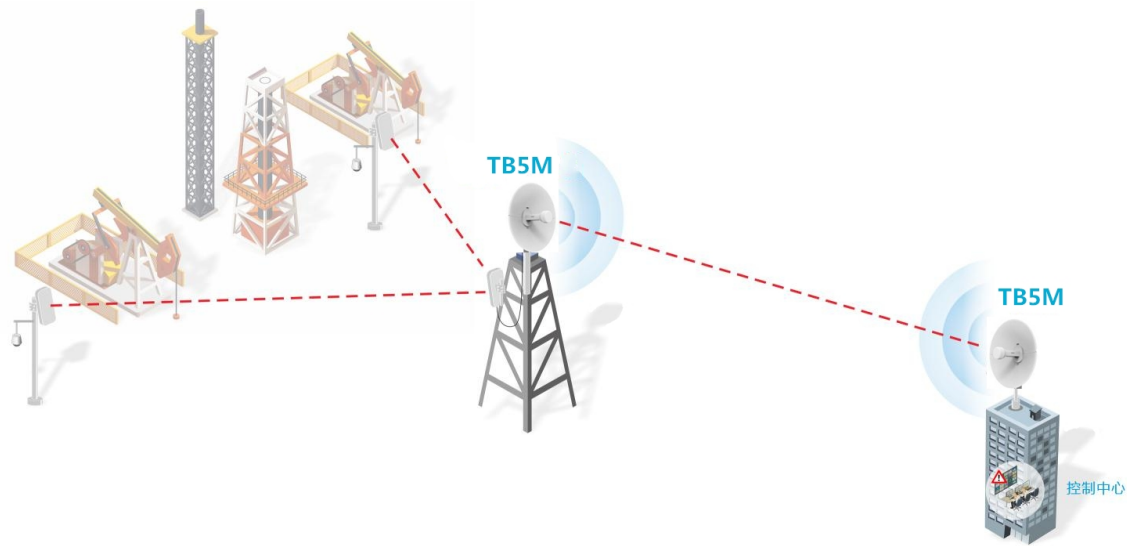
Product Feature

- Supports 802.11a/n/ac standard
 - The highest transmission rate is 867Mbps
 - Recommended transmission distance: 0~10km
 - Integrated antenna, quick installation
 - Built-in VTrans technology, including
 - 1) TDMA+: eliminate the performance degradation caused by hidden terminals and maximize the wireless transmission efficiency
 - 2) Frequency (channel) expansion function: eliminate interference caused by the same frequency and adjacent frequency through more frequency selection
 - 3) Band width selection: by adjusting the channel width, the overlapping parts of spectrum can be avoided and the influence of interference by other channels can be reduced.
 - 4) AutoAck function: intelligently calculate the ACK value required for long-distance transmission to achieve the optimal performance at this distance
 - 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 controllers need to be purchased separately

Accessory List

						
Main device	Reflectors	Mount Bracket	Hoop	Desktop power supply	QIG	QC

Application scenarios



Specifications

Hardware	Dimensions(mm)	φ372mmx241mm
	Weight(kg)	0.9kg
	Installation	Pole mounting Diameter≤65mm
	Protection Level	IP66
	Antenna Gain	23dBi
	Beam Width	H: 10°, V: 10°
	Power Supply	48V POE+
	Max Power Consumption(W)	8W
	Average Power Consumption(W)	6W
	CPU	IPQ4028
	DDR & Memory	256MB DDR3L, 32MB Flash
	Physical Interface	1×10/100/1000Mbps
	Indicator Light	3*Signal Strength Indicator
	Maximum Transmitted Power	27dBm
	Working Temperature	-40℃~65℃
	Storage Temperature	-40℃~85℃
	Working Humidity	5%~95%RH Non-condensing

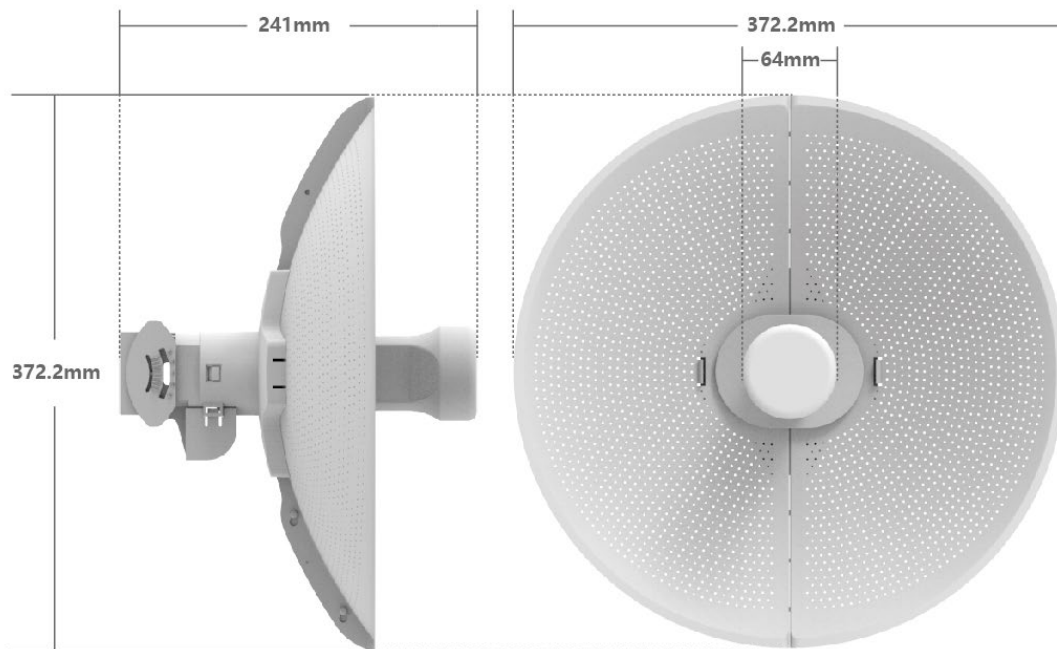
	Surge	POE/GE: CM 4KV , DM 2KV
	ESD Protection	Contact 6KV , Air 8KV
	Wind Survivability	134 km/h
Software	Protocol	802.11 a/n/ac
	Frequency	5180~5320MHz、5745~5825MHz (China) 5180~5320MHz、5500~5720MHz、5745~5825MHz (United States) 5160~5340MHz、5480~5720MHz、5745~5865MHz (India) 5160~5340MHz、5480~5720MHz、5745~5825MHz (United Arab Emirates) 5745~5805MHz (Indonesia) Supported frequency range: 4920~6060MHz (should depend on the local regulation.) * 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

RF Specification

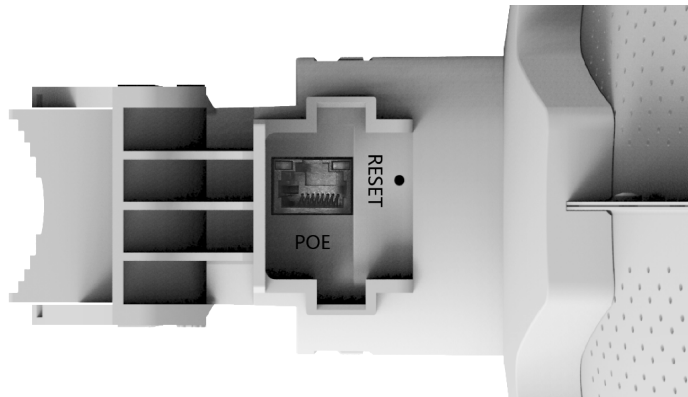
TX Power				Sensitivity		
	Date Rate	Avg. TX	Tolerance	Data Rate	Sensitivity	Tolerance
11a/n	6 Mbps	24dBm	+/- 2dBm	6 Mbps	-91dBm	+/- 2dBm
	54 Mbps	22dBm	+/- 2dBm	54 Mbps	-73dBm	+/- 2dBm
	HT20 MCS0(combination)	27dBm	+/- 2dBm	HT20 MCS0	-91dBm	+/- 2dBm
	HT20 MCS7(combination)	24dBm	+/- 2dBm	HT20 MCS7	-70dBm	+/- 2dBm
	HT40 MCS0(combination)	27dBm	+/- 2dBm	HT40 MCS0	-88dBm	+/- 2dBm
	HT40 MCS7(combination)	24dBm	+/- 2dBm	HT40 MCS7	-68dBm	+/- 2dBm
11ac	VHT20 MCS0(combination)	27dBm	+/- 2dBm	VHT20 MCS0	-91dBm	+/- 2dBm
	VHT20 MCS8(combination)	23dBm	+/- 2dBm	VHT20 MCS8	-67dBm	+/- 2dBm
	VHT40 MCS0(combination)	27dBm	+/- 2dBm	VHT40 MCS0	-87dBm	+/- 2dBm
	VHT40 MCS9(combination)	23dBm	+/- 2dBm	VHT40 MCS9	-64dBm	+/- 2dBm
	VHT80 MCS0(combination)	27dBm	+/- 2dBm	VHT80 MCS0	-85dBm	+/- 2dBm
	VHT80 MCS9(combination)	23dBm	+/- 2dBm	VHT80 MCS9	-60dBm	+/- 2dBm

* The combined power in the chart above is the result of tested single power plus 3dB

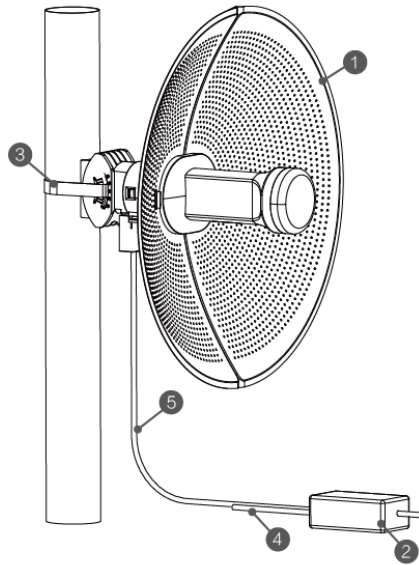
Dimensions



Interface



Installation



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

*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 Plots

