



TA8KF-8E

802.11a/b/g/n/ac dual-band outdoor high-performance device



Intelligent
Rate Control



2x2 MiMo



High
Throughput



Gigabit
Ethernet



Hardware
Watchdog



POE+

Release Notes

Date	Version Number	Editor	Change log	Remarks
2020-06-09	V1.0	Guifang	Create	
2020-11-19	V1.1	Guifang	Modify power consumption	

Product Feature

- Support 802.11a/b/g/n/ac standard and 2x2 MIMO standard
- The highest transmission rate is 867Mbps (5G) & 300Mbps (2.4G)
- 2.4G/5G coverage range: 0~300m
- Supports bridge and router mode, Network architecture can be flexibly deployed by adjusting the network mode of the device
- Intelligent QoS wireless multimedia optimization technology, providing high priority transmission levels for voice and video
- Supports dual 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
- Support wireless controller (AC) management for remote centralized configuration and upgrade management
- Supports 802.3at protocol (POE+)
- IP66

* Wireless controllers need to be purchased separately

Accessory List

			
Main device	Antenna	Brackets of device	Brackets of antenna
			
FeederX2	Desktop power supply	QIG	QC

Application Scenario



Specifications

Hardware	Dimensions(mm)	217X217X69mm
	Weight(kg)	1.5kg
	Installation	Pole mounting Diameter≤50mm
	Protection Level	IP66
	Antenna Gain	2.4G: 8dBi 5G: 10dBi
	Beam Width	2.4G H: 360°, V: 22° 5G H: 360°, V: 11°
	Antenna mounting	Pole mounting 40≤Diameter≤80mm
	Antenna Dimensions (mm)	Φ75×465mm
	Antenna Weight(kg)	1.3kg
	Power Supply	48V POE+
	Max Power Consumption(W)	12W
	Average Power Consumption(W)	9W
	CPU	IPQ4028
	DDR & Memory	256MB DDR3L, 32MB Flash

	Physical Interface	1*10/100/1000Mbps
	Radio Interface	2 * N type connector
	Maximum Transmitted Power	2.4G: 25dBm 5G: 24dBm
	Working Temperature	-40℃~70℃
	Storage Temperature	-40℃~85℃
	Working Humidity	5%~95%RH Non-condensing
	Surge	POE/GE: CM 4KV , DM 2KV
	ESD Protection	Contact 4KV , Air 6KV
	Wind Survivability	150km/h
	Protocol	802.11a/b/g/n/ac
Software	Frequency	2.4G: 2412~2472MHz (China) 2412~2462MHz (United states) 2412~2472MHz (Most countries) 5G: 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) * 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
11b/ g/n	1 Mbps	22dBm	+/- 2dBm	1 Mbps	-93dBm	+/- 2dBm
	11 Mbps	22dBm	+/- 2dBm	11 Mbps	-86dBm	+/- 2dBm
	6 Mbps	22dBm	+/- 2dBm	6 Mbps	-88dBm	+/- 2dBm
	54 Mbps	19dBm	+/- 2dBm	54 Mbps	-70dBm	+/- 2dBm

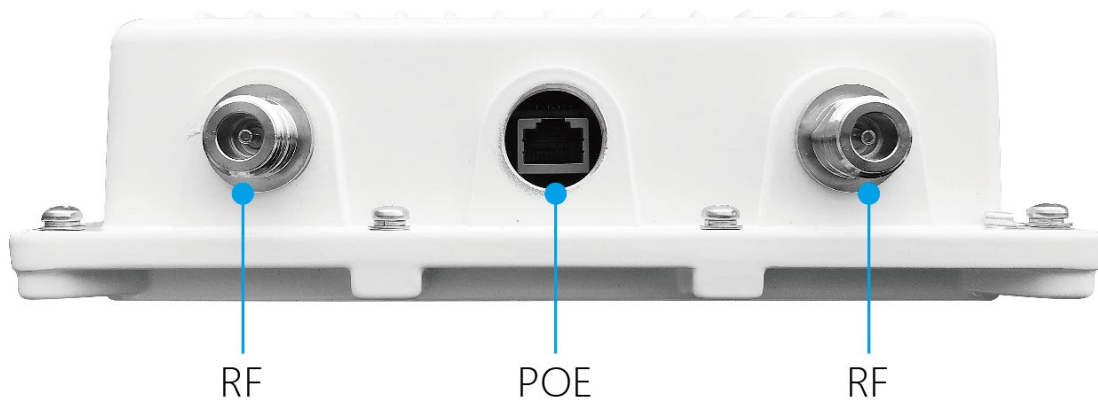
	HT20 MCS0(combination)	25dBm	+/- 2dBm	HT20 MCS0	-88dBm	+/- 2dBm
	HT20 MCS7(combination)	21dBm	+/- 2dBm	HT20 MCS7	-68dBm	+/- 2dBm
	HT40 MCS0(combination)	25dBm	+/- 2dBm	HT40 MCS0	-86dBm	+/- 2dBm
	HT40 MCS7(combination)	21dBm	+/- 2dBm	HT40 MCS7	-65dBm	+/- 2dBm
11a/ n	6 Mbps	21dBm	+/- 2dBm	6 Mbps	-88dBm	+/- 2dBm
	54 Mbps	18dBm	+/- 2dBm	54 Mbps	-70dBm	+/- 2dBm
	HT20 MCS0(combination)	24dBm	+/- 2dBm	HT20 MCS0	-88dBm	+/- 2dBm
	HT20 MCS7(combination)	20dBm	+/- 2dBm	HT20 MCS7	-67dBm	+/- 2dBm
	HT40 MCS0(combination)	24dBm	+/- 2dBm	HT40 MCS0	-85dBm	+/- 2dBm
	HT40 MCS7(combination)	20dBm	+/- 2dBm	HT40 MCS7	-65dBm	+/- 2dBm
11ac	VHT20 MCS0(combination)	24dBm	+/- 2dBm	VHT20 MCS0	-88dBm	+/- 2dBm
	VHT20 MCS8(combination)	19dBm	+/- 2dBm	VHT20 MCS8	-64dBm	+/- 2dBm
	VHT40 MCS0(combination)	24dBm	+/- 2dBm	VHT40 MCS0	-84dBm	+/- 2dBm
	VHT40 MCS9(combination)	18dBm	+/- 2dBm	VHT40 MCS9	-61dBm	+/- 2dBm
	VHT80 MCS0(combination)	24dBm	+/- 2dBm	VHT80 MCS0	-82dBm	+/- 2dBm
	VHT80 MCS9(combination)	18dBm	+/- 2dBm	VHT80 MCS9	-57dBm	+/- 2dBm

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

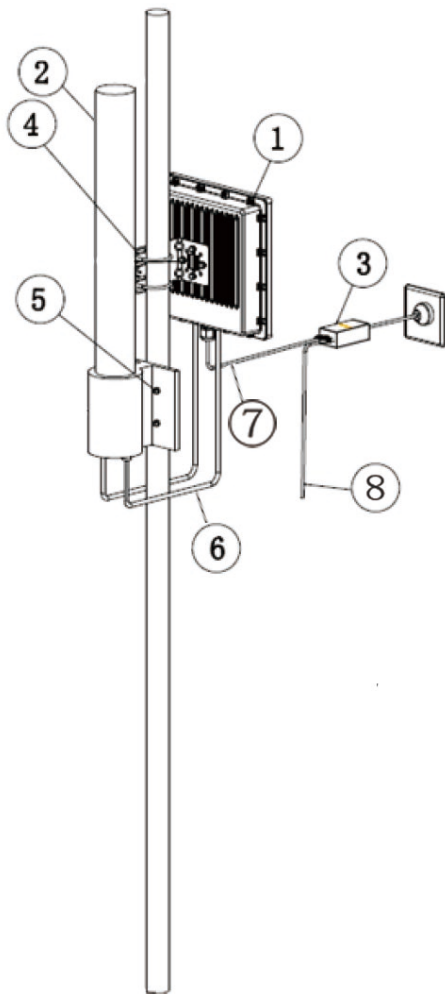
Dimensions



Interface



Installation



1. AP Main Device
2. Antenna
3. POE Adaptor
4. Brackets of Device
5. Brackets of Antenna
6. Feeder
7. The POE port of POE adaptor should connect to the POE port on the main device
8. The LAN port of POE adaptor can be connected with the other devices

Antenna Polar Plots

