



TA8H

802.11a/b/g/n/ac 2G/5G
Indoor Wireless Ceiling AP



TDMA



Intelligent
Rate Control



ACK Time-out
Adjustment



2x2 MiMo



High
Throughput



PTMP



Gigabit
Ethernet



Hardware
Watchdog



POE+

Long Range, Robust Wireless Connection

Summary

TA8H is a new generation of 802.11ac 2x2 dual frequency AP for indoor applications. It can provide stable indoor wireless signal coverage, and provide customers with stable, high quality, convenient broadband services.

TA8H built in CreatComm's unique VTrans wireless technology, the technology combines industry-leading core technology, including MIMO-OFDM, TDMA, Beamforming, AutoACK, etc., to ensure high throughput and reliable wireless signal coverage under various application scenarios.

This series of products have simple structure and designed fully considering harsh environment applications, and comply with the IP41 standard, so the TA8H is a good candidate for enterprise level WiFi coverage device.

Product Feature

- Dual-band concurrent (2.4GHz/5GHz)
- Support 802.11ac standard, and 2x2 MIMO technology
- Longest transmission distance: 0~150m, and max transmission throughput: 867Mbps (5G)&300Mbps (2.4G)
- Integrated VTrans technology
- Support operation modes: AP, Station, WDS AP, WDS Station, WDS Repeater
- Support PPPoE and route mode
- Wireless multimedia optimization technology guarantees video / Traffic shaping
- Support dual backup firmware
- Support wireless load balancing
- Web based working scenario selection makes the installation and setting much easier
- Support remote configuration and upgrade management by AC
- Support SNMP
- Standard 802.3at Power over Ethernet (PoE+)
- IP41

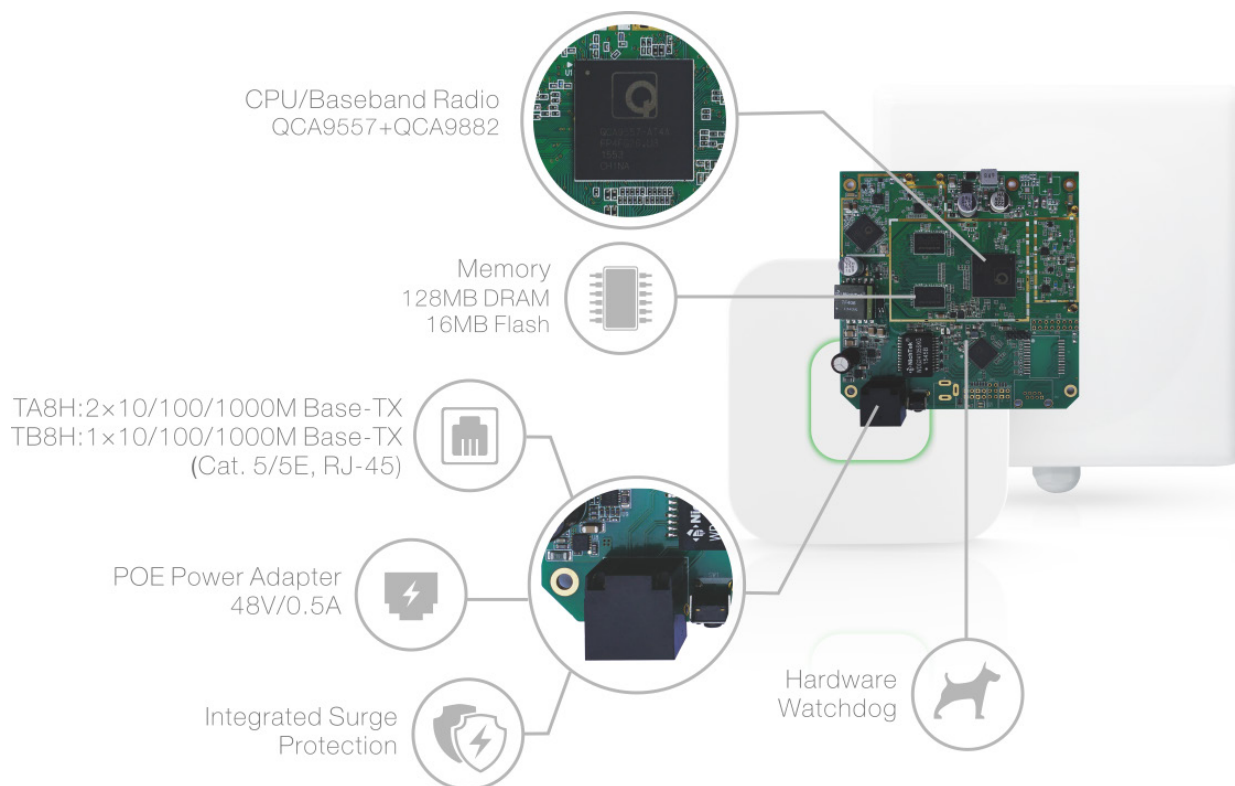
Product Introduction

Industrial Leading Design

The TA8H has the industrial leading technology, owing the performance capability of a wireless base station with only a small form factor, furthermore, it has very attractive low cost.

The TA8H complies with the 802.1ac standards, can provide up to 867Mbps throughput, and have a greater range of the wireless signal coverage than the traditional AP, more than nearly 50%.

The TA8H utilizes a series of advanced technologies such as TDMA, MIMO and so on, all embedded in the integrated VTrans system, having the advantage of high data rate and robust transmission.



VTrans Integrated System

- VTrans utilize the most advanced technologies
- TDMA technology can solve the problems of hidden-node problem in the 802.11 network; improve PTMP performance and wireless bandwidth efficiency and noise immune performance.
- MIMO can improve wireless data rate and signal quality;
- 10/20/40/80MHz bandwidth can be flexibly configured by the users;
- Auto ACK Time-out adjust, can automatically detect the distances of the TA8H devices;
- Intelligent rate control algorithm can be adapted to quick channel quality variations;
- Configure the WiFi as WAN or LAN port.



POE

Those features are suitable for outdoor long range applications

- POE removes the need of device power supply
- POE enables remote reset of the device from power supply location
- Support standard 802.3at POE power supply

Application Scenario

Products can provide high quality wireless signal coverage, wide application of a variety of indoor scenes, such as offices, coffee shops, hospitals, airports, or other crowded areas



Specifications

Hardware Specifications	
CPU/Baseband Radio	QCA9557+QCA9882
Memory	128MB DDR2,16MB Flash
Physical Interface	2×10/100M /1000MBase-TX (Cat. 5/5E, RJ-45)
Power Requirement	POE+

Software Specifications	
Protocol	802.11b/g/n&802.11a/n/ac, TDMA
Operation Mode	AP, Station, WDS AP, WDS Station, WDS Repeater
Networking	Bridge, Router
Operating Frequency	2400~2500MHz(More Non-standard channels are available,2312~2532MHz) 5180~5825MHz(More Non-standard channels are available,4920~5915MHz)
Security	WPA/WPA2, Hide SSID, IP/MAC Filtering
Configuration	Web-based configuration, AC Management, SNMP Management
Firmware Update	Firmware update via browser or AC

Physical/Electrical/Environmental/Antenna/Certification	
Enclosure Characteristics	ABS
Mounting Kit	Ceiling Installation
Working Temperature	-20℃ to 60℃
Storage Temperature	-40℃ to 85℃
Dimensions	150×150×31.6mm
Weight	0.3kg
Max Power Consumption	<=20W
Antenna Gain	3dBi

RF Index							
TX Power Specifications (2T2R)				RX Sensitivity Specifications			
	Date Rate	Avg. TX	Tolerance		Data Rate	Avg. TX	Tolerance
11b	1 ~11Mbps	27dBm	+/- 2dB	11b	1 Mbps	-93 dBm	+/- 2dB
	6~24Mbps	27dBm	+/- 2dB		6Mbps	-92 dBm	+/- 2dB
11g	54 Mbps	24 dBm	+/- 2dB	11g	54 Mbps	-75 dBm	+/- 2dB
	6~24Mbps	27dBm	+/- 2dB		6Mbps	-91 dBm	+/- 2dB
11a	54 Mbps	24 dBm	+/- 2dB	11a	54 Mbps	-74 dBm	+/- 2dB
	MCS0~3	27dBm	+/- 2dB		MCS0HT20	-91 dBm	+/- 2dB
11n	MCS7	23 dBm	+/- 2dB	11n	MCS0HT40	-88 dBm	+/- 2dB
	MCS8~11	27dBm	+/- 2dB		MCS7HT20	-74 dBm	+/- 2dB
	MCS15	23 dBm	+/- 2dB		MCS7HT40	-71 dBm	+/- 2dB
	MCS0~3	27dBm	+/- 2dB		MCS0HT20	-90 dBm	+/- 2dB
11ac	MCS9	21 dBm	+/- 2dB	11ac	MCS9HT20	-67 dBm	+/- 2dB
	MCS10~13	27dBm	+/- 2dB		MCS9HT40	-64 dBm	+/- 2dB
	MCS19	21 dBm	+/- 2dB		MCS9HT80	-61 dBm	+/- 2dB

Ordering Information

Creatcomm Technologies Co., Ltd.
 Suite619, Build A, Modern Plaza, No.18 Weiye Road Kunshan Development Zone,
 Jiangsu, China. 215300
 Tel: +86-512-86186383
 Email: sales@creatcomm.com
 Website: www.creatcomm.com