



# TA2I

802.11b/g/n 2.4G  
Indoor Wireless Ceiling AP



TDMA



Intelligent  
Rate Control



ACK Time-out  
Adjustment



2x2 MiMo



PTMP



High  
Throughput



Hardware  
Watchdog



POE+

# Provide a Stable Broadband Wireless Coverage

## Summary

TA21 is a new generation of 2x2 2.4GHz ceiling installation access point equipment. This product can provide customers with stable indoor wireless signal coverage, to ensure that customers enjoy a stable, high quality, convenient broadband services.

TA21 integrated VTrans wireless technology independently developed by our company. The technology integration of a number of industry-leading core results, covering MIMO, TDMA, Beamforming etc., to ensure a stable, reliable and high throughput performance in multiple scenarios.

## Product Feature

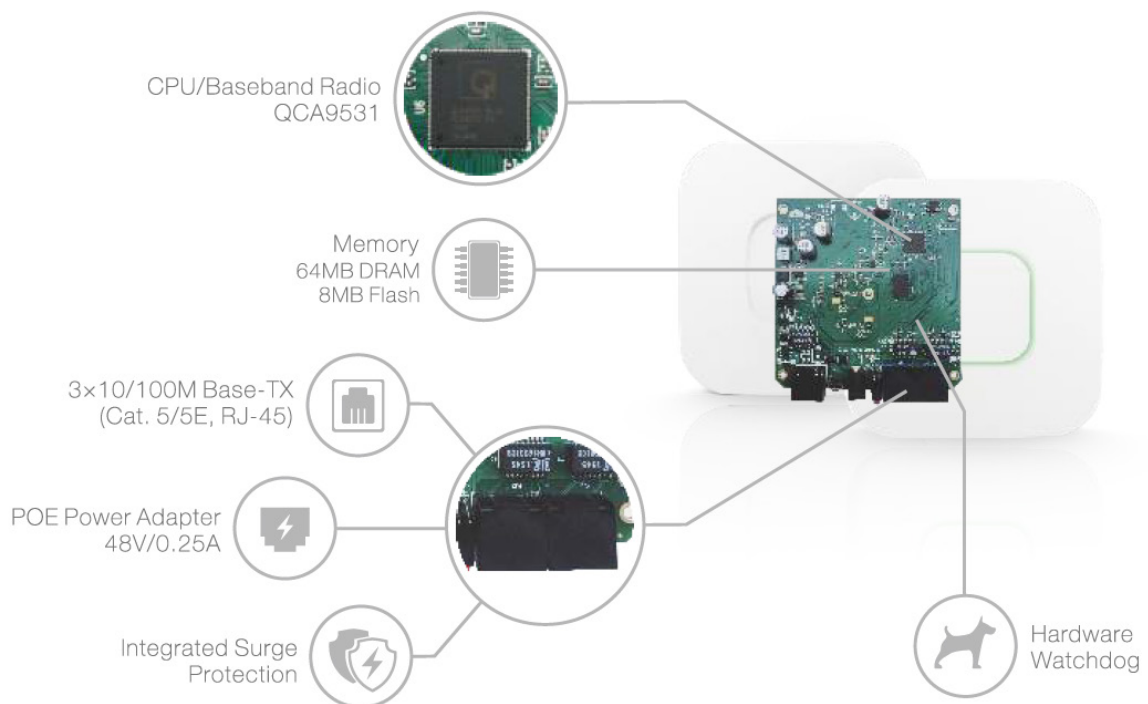
- Support 802.11n and 2x2 MIMO
- Longest transmission distance: 0~150m, and max transmission throughput: 300Mbps
- Integrated VTrans technology
- Support multiple wireless modes: Access Point, Client, Access Point (WDS), Client (WDS)
- Support Route mode including PPPoE, DHCP client, Static IP
- Wireless multimedia optimization technology guarantees video/Traffic shaping
- Web-based configuration, easy to use
- Support remote configuration and upgrade management via AC
- Support SNMP
- Support 802.3at(PoE+)
- IP41

## Product Introduction

### Industrial Leading Design

The TA21 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.

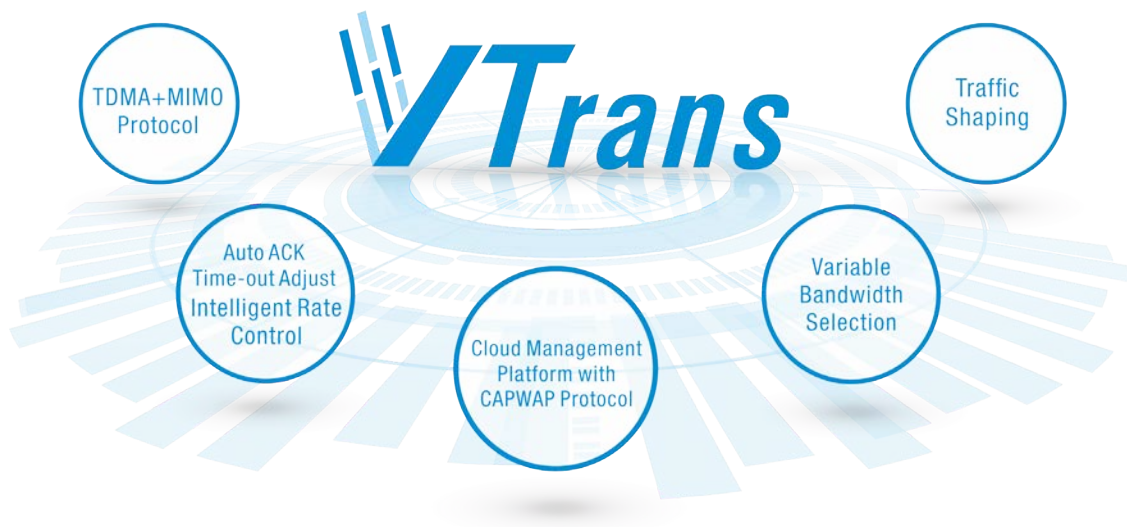
The TA21 complies with the 802.1n standard, can provide up to 300Mbps throughput and have a greater range of the wireless signal coverage than the traditional AP more than nearly 50%.



## VTrans Integrated System

VTrans utilize the most advanced technologies:

- TDMA technology, can solve the problem of hidden nodes in the 802.11 network, to enhance the performance of the point to multipoint; MIMO improves the wireless data rate and signal quality
- 20/40MHz bandwidth configuration allows users to freely choose the appropriate bandwidth
- Traffic shaping can control the throughput;
- Auto ACK Time-out adjust, can automatically detect the distances of the devices. Intelligent rate control algorithm, can be adapted to quick channel quality variations
- Cloud Management Platform can simplify management



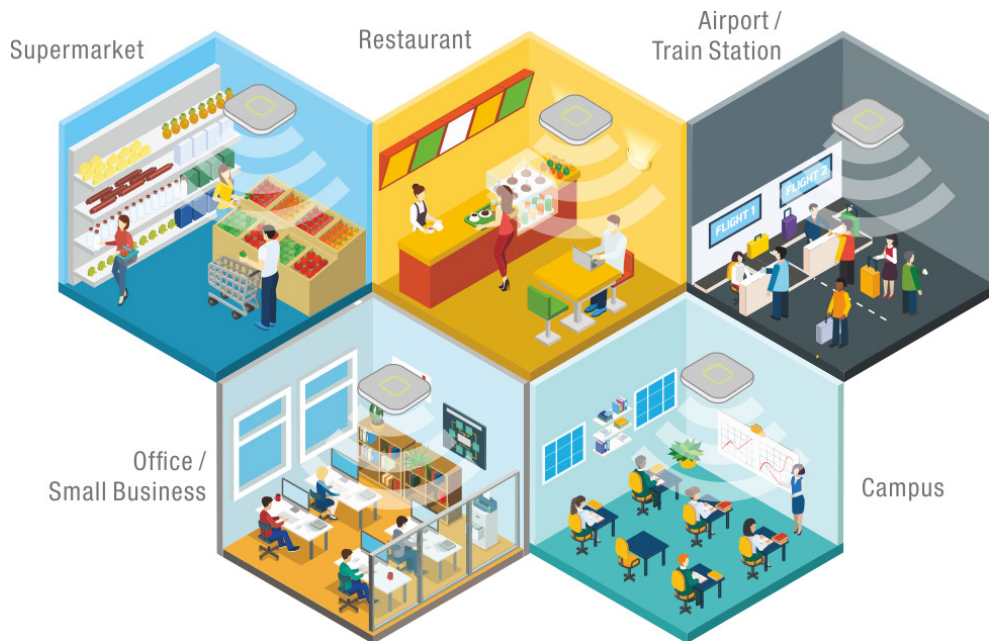
## Multiple RJ45 ports and POE power

These technologies will allow the product to better meet the needs of the application:

- POE power supply to solve the problem of long-distance power supply equipment;
- The design of the multi RJ45 ports provides a better expansion space for the equipment connection;

## 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	QCA9531
Memory	64MB DDR2, 8MB Flash
Physical Interface	3×10/100M Base-TX (Cat. 5/5E, RJ-45)
Power Requirement	POE+, DC 12V/0.8A

Software Specifications	
Protocol	802.11b/g/n, TDMA
Operation Mode	Access Point, Client, Access Point (WDS), Client (WDS)
Networking	Bridge, Router
Operating Frequency	2400~2500MHz(More Non-standard channels are available,2312~2732MHz)
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	-30°C to 60 °C
Storage Temperature	-40 °C to 85 °C
Dimensions	150 × 150 × 31.6 mm
Weight	0.5 kg
Max Power Consumption	<= 6W
Antenna Gain	3dBi omnidirectional antenna

RF Index							
TX Power Specifications (2T2R)				RX Sensitivity Specifications			
	Date Rate	Avg. TX	Tolerance		Data Rate	Avg. TX	Tolerance
11b	1 Mbps	24dBm	+/- 2dB	11b	1 Mbps	-97 dBm	+/- 2dB
	11 Mbps	24dBm	+/- 2dB		11 Mbps	-91 dBm	+/- 2dB
11g	6-24 Mbps	24dBm	+/- 2dB	11g	6Mbps	-94 dBm	+/- 2dB
	36 Mbps	23dBm	+/- 2dB		36 Mbps	-80 dBm	+/- 2dB
	54 Mbps	21dBm	+/- 2dB		54 Mbps	-73 dBm	+/- 2dB
11n	MCS0~3	24dBm	+/- 2dB	11n	MCS0	-91 dBm	+/- 2dB
	MCS4	23dBm	+/- 2dB		MCS4	-79 dBm	+/- 2dB
	MCS7	20dBm	+/- 2dB		MCS7	-72 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