Tenda



i27

AX3000 Wi-Fi 6 Ceiling Access Point

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Product Description

i27 is designed based on the new Wi-Fi 6 technology. It realizes a bandwidth of 160 MHz and a 5 GHz rate as high as 2.4 Gbps, a rate three times higher than that of ordinary Wi-Fi 5 APs and two times that of ordinary Wi-Fi 6 APs. The application of such new technologies as OFDMA, spatial multiplexing, and MU-MIMO drives the network capacity of a single i27 to 4 times higher. i27 is a perfect choice for such locations as businesses and hotels to deploy high-performance Wi-Fi networks.

Key Features

- Dual-band wireless speed: 3000 Mbps
- 802.11k/v/r Roaming
- Tenda CloudFi Cloud Management
- Power input with 802.3at PoE

Product Feature



High-speed dual-band wireless

The device supports 2.4GHz and 5GHz dual-band communications, supports Wi-Fi 6 160M bandwidth, provides 2.4GHz 574Mbps, 5GHz 2402Mbps, and the whole machine has an access rate of up to 2976Mbps. It can provide the terminal with a 5GHz frequency band with less interference, wider channels, and faster speeds, so that you can enjoy a truly refreshing wireless communication experience.



Wireless optimization to improve overall performance of wireless networks

When the working channels of adjacent APs overlap, excessive power of an AP will cause signal interference to adjacent APs. i27 works with Tenda AC controller/router to automatically plan AP channels and power through wireless optimization function, intelligently reduce signal interference between APs, and ensure high-speed operation of wireless networks.

Product Feature

802.11K/V/R roaming protocal supported for better signal

When multiple APs are deployed in an area for coverage, mobile phones/computers/pads and other terminal devices automatically connect to the AP with the best signal quality during the user's movement, and Wi-Fi switching is zero-perception. Whether it is a voice call or a video call, you can move freely without constraints.

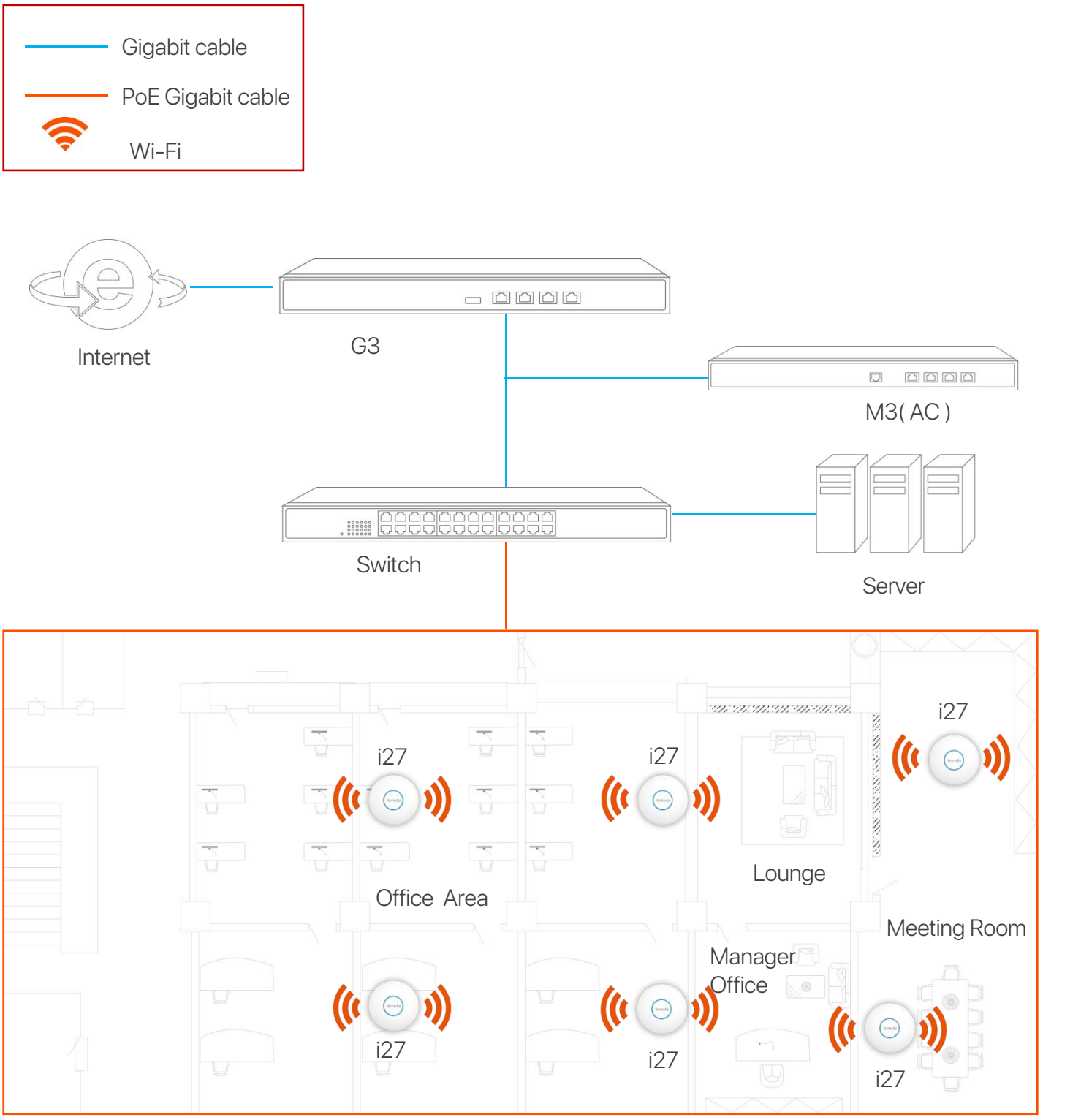
Compliant with PoE 802.3at for flexible deployment

Support 802.3at standard PoE network cable power supply, no external power supply required. One network cable can be connected to the switch to achieve PoE power supply and data transmission, plug and play, no need to consider the location of the socket, power line routing and other issues, convenient wiring, flexible networking, and more convenient construction.

Easy to manage with APP and cloud platform

Supports unified deployment, configuration, and management of devices. Through the CloudFi cloud platform and CloudFi APP, remote monitoring, management, and maintenance can be performed anytime and anywhere. It supports automatic generation of real topology and wireless one-click optimization. You don't need to be on site to easily grasp the overall situation.

Application Scenarios



Technical Specifications

Product Information	
Model	i27
Category	Ceiling
Dimension	ϕ176*43.5mm
Hardware Specifications	
Standard & Protocol	IEEE 802.11b/g/n/ac/ax
Frequency Range	2412MHz-2472MHz,5150MHz-5350MHz ,5725MHz -5850MHz
Maximum wireless speed	2.4GHz: 574Mbps 5GHz: 2402Mbps
Bandwidth	20MHz/40MHz/80MHz/160MHz
Interface	One 10/100/1000 Mbps Ethernet Port (PoE)
Button	1*Reset
LED indicator	1*SYS
Maximum Power Consumption	14.04W
Power Supply	PoE 802.3af & 48V0.8A Passive PoE
Max. Number of Clients	256
Recommended Clients	60
Antenna	2.4GHz 2*4dBi , 5GHz 3*4dBi
2.4GHz maximum power	CE 10-20dBm(2.4 GHz, EIRP) , FCC 10-28dBm
5GHz maximum power	CE 9-23 dBm(U-NII-1 & U-NII-2A, EIRP), FCC 10-26dBm
2.4GHz Reception Sensitivity	11b 1Mbps -95dBm 11g 54Mbps -75dBm 11n HT20 MCS 7 -73dBm 11ax HE40 MCS11 -60dBm
5GHz Reception Sensitivity	11a 6Mbps -93dBm 11a 54Mbps -75dBm 11n HT20 MCS7 -73dBm 11ac VHT 80 MCS9 -60dBm 11ax HE160 MCS11 -55dBm

Technical Specifications

Software Specifications

Operating Mode	AP/Client+AP
Max. No. of SSID	2.4GHz: 8 5GHz: 4
Hide SSID	Supported
Max. Number of Clients	256
Recommended Clients	60
OFDMA	Supported
Beamforming	Supported
Fast roaming（802.11k/v/r)	Supported
MLO	/
WPA-PSK	Supported
WPA2-PSK	Supported
WPA	Supported
WPA2	Supported
WPA3-SAE	Supported
Access control	Supported
Adjustable power transmit	Supported
Automatic channel	Supported
AP isolation	Supported
Guest network	Supported
Connected clients control	Supported
RSSI Threshold	Supported
Weak signal terminal elimination	Supported
Prioritize 5 GHz	Supported
VLAN tagging for SSID	Supported
LED control	Supported
Device management	Web, Router, CloudFi APP, AP Controller

Technical Specifications

Software Specifications	
System logs	Supported
Firmware upgrade	Supported
Reset	Supported
Backup configuration	Supported
Restore configuration	Supported

Others	
Management Address	tendawifi.com or 10.16.16.169
Operation Temperature	-10℃ ~ 45℃
Operating Humidity	10%~90% non-condensing
Storage Temperature	-30℃ ~ 70℃
Storage Humidity	5%~90% non-condensing

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