

**Tenda**



**i29**

AX3000 Wi-Fi 6 Long Range Access Point



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# i29

## AX3000 Wi-Fi 6 Long Range Access Point

### Product Description

i29 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 i29 to 4 times higher. The high-power RF design helps maintain the quality of Wi-Fi signal even over a long distance, so that wireless clients and AP can work under the high-performance Wi-Fi 6 mode. i29 is a perfect choice for such locations as businesses and hotels to deploy high-performance Wi-Fi networks.

## Key Features

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- Up to 3000 Mbps dual-band data rate
- Supports one-click wireless optimization
- Supports remote management
- Supports fast roaming

## Product Feature

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### **3000M wireless access speed**

Both the 2.4 GHz and the 5 GHz radio bands support the new Wi-Fi 6 standard and the concurrent Wi-Fi rate is as high as 3 Gbps, 2.5 times that of the last-generation of AP (AC1200).



### **Wireless automatic tuning, optimizing the 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. i29 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

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### **Support 802.11K/V/R fast roaming**

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.



### **Supports PoE power supply**

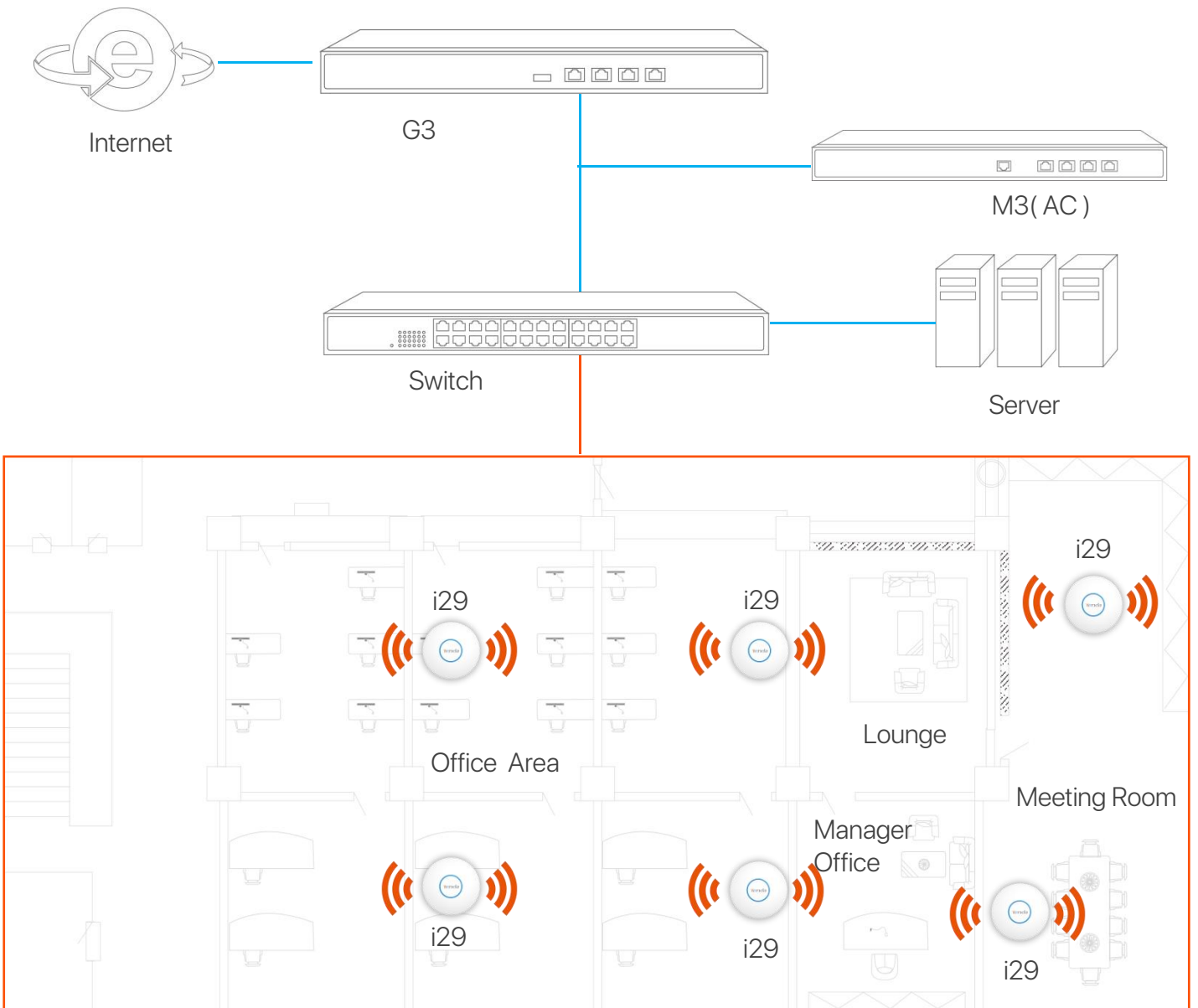
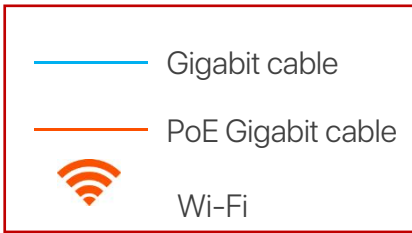
Support 802.3at standard PoE network cable power supply, no external power supply required. One network cable can be connected to the switch to achieve PoE power supply and data transmission, plug and play, no need to consider the location of the socket, power line routing and other issues, convenient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



### **Supports cloud platform/APP remote management**

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	i29
Mounting	Ceiling / Wall mouting
Dimension	φ250.6*55mm
Hardware Specifications	
Interface	2* GE
Button	1*Reset
LED indicator	1*system LED indicator(White/Blue)
Maximum Power Consumption	15.74W
Power Supply	IEEE 802.3at PoE
Antenna	4dBi
MIMO	2.4GHz:2×2 ,MU-MIMO;5GHz:2×2 ,MU-MIMO
Max. Transmit Power	<ul style="list-style-type: none"> <li>• CE: &lt;20 dBm (2.4 GHz, EIRP), &lt;23 dBm(5 GHz, EIRP)</li> <li>• FCC: &lt;29 dBm (2.4 GHz), &lt;29 dBm(5 GHz)</li> </ul>
Modulation	11b: DSS:CCK@5.5/11Mbps,DQPSK@2Mbps,DBPSK@1Mbps 11a/g: OFDM:64QAM@48/54Mbps,16QAM@24Mbps,QPSK@12/18Mbps,BPSK@6/9Mbps 11n: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM 11ac/ac wave2: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM,256QAM 11ax: MIMO-OFDM: BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM
Reception Sensitivity	11b: -91dBm (1Mbps) , -87dBm (11Mbps) ;11a/g: -89dBm (6Mbps) , -72dBm (54Mbps) ;11n: -85dBm (MCS0) , -67dBm (MCS7) , -62dBm (MCS8) ;11ac: 20MHz: -85dBm (MCS0) , -62dBm (MCS8) ;11ac: 40MHz: -82dBm (MCS0) , -59dBm (MCS8) ;11ac: 80MHz: -79dBm (MCS0) , --53dBm (MCS9) ;11ac: 160MHz: -76dBm (MCS0) , -50dBm (MCS9) ;11ax: 20MHz: -85dBm (MCS0) , -58dBm (MCS11) ;11ax: 40MHz: -82dBm (MCS0) , -54dBm (MCS11) ;11ax: 80MHz: -79dBm (MCS0) , -52dBm (MCS11) ;11ax: 160MHz: -76dBm (MCS0) , -49dBm (MCS11)
Frequency Bands	2412MHz-2472 MHz, 5150MHz- 5350 MHz, 5725 MHz-5850 MHz
Channel Bandwidth	2.4 GHz: Auto/20/40 MHz 5 GHz: Auto/20/40/80/160 MHz
Max. Wi-Fi Speed	2.4GHz: 574Mbps 5GHz: 2402Mbps

# Technical Specifications

Software Specifications	
Operating Mode	AP/Client+AP
Max. No. of SSID	2.4GHz: 8 5GHz: 4
Recommended Clients	80
Hide SSID	Supported
OFDMA	Supported
MU-MIMO	Supported
Beamforming	Supported
Fast roaming (802.11k/v/r)	Supported
WEP	/
WPA-PSK	Supported
WPA2-PSK	Supported
WPA	Supported
WPA2	Supported
WPA3-SAE	Supported
Connected clients control	Supported
Adjustable power transmit	Supported
Automatic channel	Supported
AP isolation	Supported
Guest network	Supported
RSSI Threshold	Supported
Weak signal terminal elimination	Supported
WiFi Schedules	Supported
VLAN tagging for SSID	Supported
LED control	Supported
WiFi Speed Limiting	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

Default IP	tendawifi.com 10.16.16.169
Operation Temperature	-10°C ~ 40°C
Operating Humidity	10%~90% non-condensing
Storage Temperature	-30°C ~ 70°C
Storage Humidity	5%~90% non-condensing

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