## Tenda



All for better networking.

**i23** 

AC1200 Wave 2 Gigabit Access Point





# **i23**

### AC1200 Wave 2 Gigabit Access Point

#### **Product Description**

Tenda i23 is a dual-band Gigabit ceiling AP that complies with the IEEE 802.11ac Wave 2 standard, with a concurrent data rate of up to 1167 Mbps. Users can manage the device locally or remotely through the Tenda CloudFi APP, device web, Tenda CloudFi platform, etc., and can also share and host the network to others for collaborative management, thus achieving simpler, easier to use, safer and more convenient enterprise network operation and maintenance.

#### **Key Features**

- Up to 1167 Mbps dual-band data rate
- Supports one-click wireless optimization
- Supports remote management
- Supports fast roaming

#### **Product Feature**



## 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. i23 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.



#### 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.

#### **Product Feature**



#### **Supports PoE power supply**

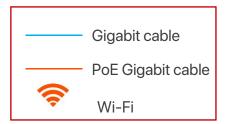
Support 802.3af standard PoE network cable power supply, no external power supply required. One network cable can be connected to the switch to achieve PoE power supply and data transmission, plug and play, no need to consider the location of the socket, power line routing and other issues, convenient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

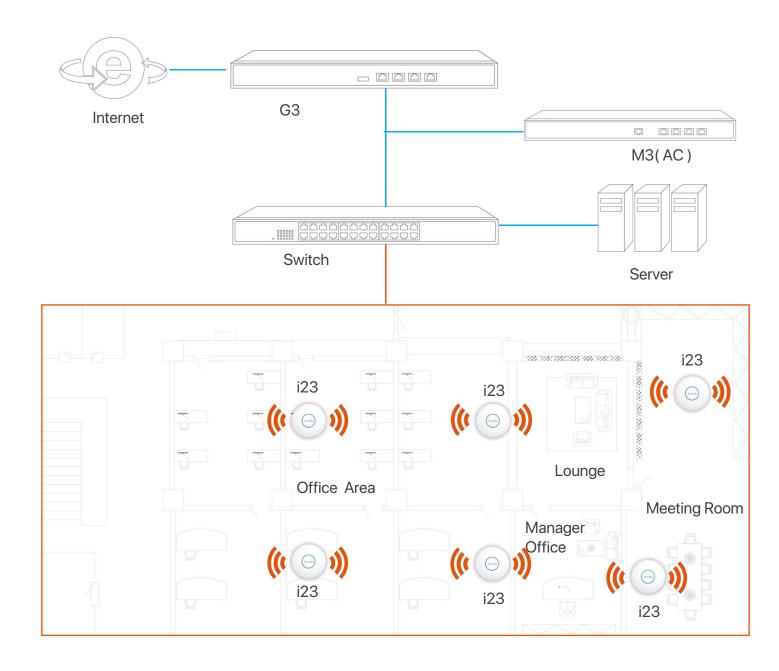


#### **Supports cloud platform/APP remote management**

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**

Model         i23           Category         Ceiling           Dimension         178 mm * 178 mm * 38 mm           Hardware Specifications         Interface           Interface         One 10/100/1000 Mbps Ethernet Port (PoE)           Button         1*Reset           LED indicator         1*SYS           Maximum Power Consumption         10.5W           Power Supply         PoE 802.3af           Max. Number of Clients         256           Recommended Clients         40           Antenna         2*4dBi(2.4GHz)+2*4dBi(5GHz)           11b mode, transmit power 22±1.5dBm         11g mode, transmit power 22±1.5dBm           11a mode, MCS7 transmit power 22±1.5dBm         11a mode, MCS7 transmit power 19±1.5dBm           11ar mode, MCS7 transmit power 19±1.5dBm         11ac mode, MCS1 transmit power 15±1.5dBm           11ar mode, MCS1 transmit power 15±1.5dBm         12.4GHz 802.11n - 95dBm           2.4GHz 802.11n - 95dBm         5GHz 802.11n - 95dBm           5GHz 802.11n - 95dBm         5GHz 802.11n - 95dBm           5GHz 802.11n (40M-MCS7) - 77dBm         5GHz 802.11n (40M-MCS7) - 76dBm           5GHz 802.11n (40M-MCS7) - 76dBm         5GHz 802.11n (40M-MCS7) - 76dBm           5GHz 802.11n (40M-MCS7) - 76dBm         5GHz 802.11n (40M-MCS7) - 76dBm           5GHz 807.11	Product Information	
Dimension	Model	i23
Interface	Category	Ceiling
Interface	Dimension	178 mm * 178 mm * 38 mm
Button	Hardware Specifications	
1*SYS	Interface	One 10/100/1000 Mbps Ethernet Port (PoE)
Maximum Power Consumption         10.5W           Power Supply         PoE 802.3af           Max. Number of Clients         256           Recommended Clients         40           Antenna         2*4dBi(2.4GHz)+2*4dBi(5GHz)           11b mode, transmit power 22±1.5dBm           11g mode, transmit power 22±1.5dBm           11n mode, MCS7 transmit power 20±1.5dBm           11n mode, MCS7 transmit power 19±1.5dBm           11a mode, MCS9 transmit power 19±1.5dBm           11a mode, MCS9 transmit power 15±1.5dBm           11a mode, MCS11 transmit power 15±1.5dBm           12a GHz 802.11b - 98dBm           2.4GHz 802.11n (MCS7) - 77dBm           5GHz 802.11a - 95dBm           5GHz 802.11a (40M-MCS7) - 76dBm           5GHz 802.11a (80M-MCS11) - 64dBm           Frequency Range         2.4GHz&5GHz           Standard & Protocol         IEEE 802.11b/g/n/ac           Maximum wireless speed         2.4GHz: 300Mbps           5GHz: 867Mbps           Bandwidth         20MHz/40MHz/80MHz	Button	1*Reset
Power Supply         PoE 802.3af           Max. Number of Clients         256           Recommended Clients         40           Antenna         2*4dBi(2.4GHz)+2*4dBi(5GHz)           11b mode, transmit power 22±1.5dBm           11g mode, transmit power 22±1.5dBm           11n mode, MCS7 transmit power 20±1.5dBm           11a mode, transmit power 22±1.5dBm           11a mode, MCS7 transmit power 19±1.5dBm           11ac mode, MCS9 transmit power 19±1.5dBm           11ac mode, MCS9 transmit power 15±1.5dBm           11ac mode, MCS1 transmit power 15±1.5dBm           12ac mode, MCS1 transmit p	LED indicator	1*SYS
Max. Number of Clients         256           Recommended Clients         40           Antenna         2*4dBi(2.4GHz)+2*4dBi(5GHz)           11b mode, transmit power 22±1.5dBm           11g mode, transmit power 22±1.5dBm           11n mode, MCS7 transmit power 20±1.5dBm           11n mode, MCS7 transmit power 19±1.5dBm           11n mode, MCS7 transmit power 19±1.5dBm           11ac mode, MCS9 transmit power 15±1.5dBm           11ac mode, MCS9 transmit power 15±1.5dBm           11ac mode, MCS11 transmit power 15±1.5dBm           12.4GHz 802.11b -98dBm           2.4GHz 802.11b -98dBm           2.4GHz 802.11n (MCS7) -77dBm           5GHz 802.11n (MCS7) -76dBm           5GHz 802.11n (40M-MCS7) -76dBm           5GHz 802.11a (80M-MCS11) -64dBm           Frequency Range         2.4GHz.85GHz           Standard & Protocol         IEEE 802.11b/g/n/ac           Maximum wireless speed         2.4GHz: 300Mbps           5GHz: 867Mbps           Bandwidth         20MHz/40MHz/80MHz	Maximum Power Consumption	10.5W
Recommended Clients         40           Antenna         2*4dBi(2.4GHz)+2*4dBi(5GHz)           2.4GHz maximum power         11b mode, transmit power 22±1.5dBm           11n mode, MCS7 transmit power 20±1.5dBm           11n mode, MCS7 transmit power 19±1.5dBm           11n mode, MCS9 transmit power 19±1.5dBm           11ac mode, MCS9 transmit power 15±1.5dBm           11ac mode, MCS9 transmit power 15±1.5dBm           11ac mode, MCS9 transmit power 15±1.5dBm           12cm         2.4GHz 802.11b -98dBm           2.4GHz 802.11b -98dBm           2.4GHz 802.11a -95dBm           5GHz 802.11a -95dBm           5GHz 802.11a (MCS7) -77dBm           5GHz 802.11a (40M-MCS7) -76dBm           5GHz 802.11ax (80M-MCS11) -64dBm           Frequency Range         2.4GHz.85GHz           Standard & Protocol         IEEE 802.11b/g/n/ac           Maximum wireless speed         2.4GHz: 300Mbps           5GHz: 867Mbps           Bandwidth         20MHz/40MHz/80MHz	Power Supply	PoE 802.3af
Antenna 2*4dBi(2.4GHz)+2*4dBi(5GHz)  11b mode, transmit power 22±1.5dBm  11g mode, transmit power 22±1.5dBm  11n mode, MCS7 transmit power 20±1.5dBm  11n mode, MCS7 transmit power 20±1.5dBm  11n mode, MCS7 transmit power 19±1.5dBm  11n mode, MCS7 transmit power 15±1.5dBm  11ac mode, MCS9 transmit power 15±1.5dBm  11ac mode, MCS9 transmit power 15±1.5dBm  12.4GHz 802.11b -98dBm  2.4GHz 802.11b -98dBm  2.4GHz 802.11a -95dBm  5GHz 802.11a (40M-MCS7) -77dBm  5GHz 802.11a (80M-MCS1) -64dBm  Frequency Range  2.4GHz&5GHz  Standard & Protocol  IEEE 802.11b/g/n/ac  2.4GHz: 300Mbps  5GHz: 867Mbps  Bandwidth  20MHz/40MHz/80MHz	Max. Number of Clients	256
2.4GHz maximum power    11b mode, transmit power 22±1.5dBm   11g mode, transmit power 22±1.5dBm   11n mode, MCS7 transmit power 20±1.5dBm   11n mode, MCS7 transmit power 22±1.5dBm   11n mode, MCS7 transmit power 19±1.5dBm   11n mode, MCS7 transmit power 15±1.5dBm   11n mode, MCS9 transmit power 15±1.5dBm   11n mode, MCS9 transmit power 15±1.5dBm   11n mode, MCS11 transmit power 15±1.5dBm   2.4GHz 802.11b -98dBm   2.4GHz 802.11b -98dBm   5GHz 802.11n (MCS7) -77dBm   5GHz 802.11n (40M-MCS7) -76dBm   5GHz 802.11n (40M-MCS1) -64dBm   Frequency Range   2.4GHz&5GHz   Standard & Protocol   IEEE 802.11b/g/n/ac   2.4GHz: 300Mbps   5GHz: 867Mbps   Bandwidth   20MHz/40MHz/80MHz	Recommended Clients	40
2.4GHz maximum power       11g mode, transmit power 22±1.5dBm         11n mode, MCS7 transmit power 20±1.5dBm         11n mode, MCS7 transmit power 19±1.5dBm         11n mode, MCS9 transmit power 19±1.5dBm         11ac mode, MCS9 transmit power 19±1.5dBm         11ax mode, MCS11 transmit power 15±1.5dBm         2.4GHz 802.11b -98dBm         2.4GHz 802.11n (MCS7) -77dBm         5GHz 802.11a (MCS7) -76dBm         5GHz 802.11n (40M-MCS7) -76dBm         5GHz 802.11ax (80M-MCS11) -64dBm         Frequency Range       2.4GHz&5GHz         Standard & Protocol       IEEE 802.11b/g/n/ac         Maximum wireless speed       2.4GHz: 300Mbps         5GHz: 867Mbps         Bandwidth       20MHz/40MHz/80MHz	Antenna	2*4dBi(2.4GHz)+2*4dBi(5GHz)
5GHz maximum power       11n mode, MCS7 transmit power 19±1.5dBm         11ac mode, MCS9 transmit power 15±1.5dBm         11ax mode, MCS11 transmit power 15±1.5dBm         2.4GHz 802.11b -98dBm         2.4GHz 802.11n (MCS7) -77dBm         5GHz 802.11a -95dBm         5GHz 802.11n (40M-MCS7) -76dBm         5GHz 802.11ax (80M-MCS11) -64dBm         Frequency Range       2.4GHz&5GHz         Standard & Protocol       IEEE 802.11b/g/n/ac         Maximum wireless speed       2.4GHz: 300Mbps         5GHz: 867Mbps       5GHz: 867Mbps         Bandwidth       20MHz/40MHz/80MHz	2.4GHz maximum power	11g mode, transmit power 22±1.5dBm
Reception Sensitivity       2.4GHz 802.11n (MCS7) -77dBm         5GHz 802.11a -95dBm         5GHz 802.11n (40M-MCS7) -76dBm         5GHz 802.11ax (80M-MCS11) -64dBm         Frequency Range       2.4GHz&5GHz         Standard & Protocol       IEEE 802.11b/g/n/ac         Maximum wireless speed       2.4GHz: 300Mbps         5GHz: 867Mbps         Bandwidth       20MHz/40MHz/80MHz	5GHz maximum power	11n mode, MCS7 transmit power 19±1.5dBm 11ac mode, MCS9 transmit power 15±1.5dBm
Standard & Protocol  Maximum wireless speed  2.4GHz: 300Mbps 5GHz: 867Mbps  Bandwidth  20MHz/40MHz/80MHz  Software Specifications	Reception Sensitivity	2.4GHz 802.11n (MCS7) -77dBm 5GHz 802.11a -95dBm 5GHz 802.11n (40M-MCS7) -76dBm
Maximum wireless speed  2.4GHz: 300Mbps 5GHz: 867Mbps  Bandwidth  20MHz/40MHz/80MHz  Software Specifications	Frequency Range	2.4GHz&5GHz
Maximum wireless speed  5GHz: 867Mbps  Bandwidth  20MHz/40MHz/80MHz  Software Specifications	Standard & Protocol	IEEE 802.11b/g/n/ac
Software Specifications	Maximum wireless speed	
	Bandwidth	20MHz/40MHz/80MHz
Operating Mode AP/Client+AP	Software Specifications	
	Operating Mode	AP/Client+AP

## **Technical Specifications**

SGHz: 4 Hide SSID Supported OFDMA No Supported Beamforming Supported Fast roaming (802.11k/v/r) WEP Supported WPA-PSK Supported WPA2-PSK Supported WPA3-SAE No Supported WPA3-SAE No Supported Adjustable power transmit Supported AP isolation Supported Guest network Supported Supported WPASIThreshold Weak signal terminal elimination Supported WPASIThreshold Supported Supported WPASITHREST SUPPORTED Weak signal terminal elimination Supported WLAN tagging for SSID Supported MU-MIMO Supported	Software Specifications	
Beamforming Supported  Beamforming Supported  Fast roaming (802.11k/v/r) Supported  WEP Supported  WPA-PSK Supported  WPA2-PSK Supported  WPA2 Supported  WPA3-SAE No Supported  Access control Supported  Automatic channel Supported  AP isolation Supported  Guest network Supported  Weak signal terminal elimination Supported  Weak signal terminal elimination Supported  WLAN tagging for SSID Supported  MU-MIMO Supported  MU-MIMO Supported  Reboot at specified interval Supported	Max. No. of SSID	
Beamforming Supported Fast roaming (802.11k/v/r) Supported WEP Supported WPA-PSK Supported WPA2-PSK Supported WPA3-PSK Supported WPA3-SAE No Supported Access control Supported Adjustable power transmit Supported AP isolation Supported Guest network Supported Connected clients control Supported Weak signal terminal elimination Supported Weak signal terminal elimination Supported Weak signal terminal elimination Supported WLAN tagging for SSID Supported MU-MIMO Supported Reboot at specified interval Supported Scheduled reboot Supported Supported Supported Supported	Hide SSID	Supported
Fast roaming (802.11k/v/r)  WEP Supported  WPA-PSK Supported  WPA2-PSK Supported  WPA2 Supported  WPA2 Supported  WPA3-SAE No Supported  Adjustable power transmit Supported  Automatic channel Supported  AP isolation Supported  Connected clients control Supported  Weak signal terminal elimination Prioritize 5 GHz Supported  MU-MIMO Supported	OFDMA	No Supported
WEP Supported WPA-PSK Supported WPA2-PSK Supported WPA2 Supported WPA2 Supported WPA3-SAE No Supported Access control Supported Adjustable power transmit Supported Automatic channel Supported AP isolation Supported Guest network Supported RSSI Threshold Supported Weak signal terminal elimination Supported Prioritize 5 GHz Supported ULAN tagging for SSID Supported MU-MIMO Supported MU-MIMO Supported Scheduled reboot Supported Supported Supported Supported	Beamforming	Supported
WPA2-PSK WPA2-PSK Supported WPA2 WPA2 Supported WPA2 Supported WPA3-SAE No Supported Access control Supported Adjustable power transmit Supported Automatic channel Supported AP isolation Supported Connected clients control Supported Weak signal terminal elimination Supported Weak signal terminal elimination Supported WLAN tagging for SSID Supported MU-MIMO Supported	Fast roaming (802.11k/v/r)	Supported
WPA2-PSK Supported WPA2 Supported WPA2 Supported WPA3-SAE No Supported Access control Supported Adjustable power transmit Supported Automatic channel Supported AP isolation Supported Guest network Supported Connected clients control Supported Weak signal terminal elimination Prioritize 5 GHz Supported WLAN tagging for SSID Supported MU-MIMO Supported	WEP	Supported
WPA Supported WPA2 Supported WPA3-SAE No 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 MU-MIMO Supported MU-MIMO Supported Reboot at specified interval Supported Scheduled reboot Supported Supported Supported	WPA-PSK	Supported
WPA2 Supported WPA3-SAE No 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 ULAN tagging for SSID Supported MU-MIMO Supported Diagnostics tool Supported Reboot at specified interval Supported Scheduled reboot Supported Supported	WPA2-PSK	Supported
WPA3-SAE  Access control  Adjustable power transmit  Supported  Automatic channel  Supported  AP isolation  Supported  Guest network  Supported  Connected clients control  RSSI Threshold  Weak signal terminal elimination  Prioritize 5 GHz  VLAN tagging for SSID  Supported  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported	WPA	Supported
Access control  Adjustable power transmit  Supported  Automatic channel  Supported  AP isolation  Supported  Guest network  Connected clients control  RSSI Threshold  Weak signal terminal elimination  Prioritize 5 GHz  VLAN tagging for SSID  Supported  WU-MIMO  Supported	WPA2	Supported
Adjustable power transmit  Automatic channel  Supported  AP isolation  Guest network  Connected clients control  RSSI Threshold  Weak signal terminal elimination  Prioritize 5 GHz  VLAN tagging for SSID  Supported  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported	WPA3-SAE	No Supported
Automatic channel  AP isolation  Supported  Guest network  Connected clients control  RSSI Threshold  Weak signal terminal elimination  Prioritize 5 GHz  VLAN tagging for SSID  Supported  Supported  LED control  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported	Access control	Supported
AP isolation  Supported  Guest network  Supported  Connected clients control  RSSI Threshold  Weak signal terminal elimination  Prioritize 5 GHz  VLAN tagging for SSID  Supported  LED control  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported	Adjustable power transmit	Supported
Guest network  Connected clients control  RSSI Threshold  Weak signal terminal elimination  Prioritize 5 GHz  VLAN tagging for SSID  Supported	Automatic channel	Supported
Connected clients control  RSSI Threshold  Weak signal terminal elimination  Prioritize 5 GHz  VLAN tagging for SSID  Supported  LED control  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported	AP isolation	Supported
RSSI Threshold  Weak signal terminal elimination  Prioritize 5 GHz  Supported  VLAN tagging for SSID  Supported  LED control  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported	Guest network	Supported
Weak signal terminal elimination  Prioritize 5 GHz  Supported  VLAN tagging for SSID  Supported  LED control  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported	Connected clients control	Supported
Prioritize 5 GHz  VLAN tagging for SSID  Supported  LED control  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported  Supported  Supported  Supported  Supported  Supported  Supported  Supported  Supported	RSSI Threshold	Supported
VLAN tagging for SSID  Supported  Supported  MU-MIMO  Diagnostics tool  Reboot at specified interval  Supported  Supported  Supported  Supported  Supported  Supported	Weak signal terminal elimination	Supported
LED control  MU-MIMO  Supported  Diagnostics tool  Reboot at specified interval  Scheduled reboot  Supported  Supported  Supported	Prioritize 5 GHz	Supported
MU-MIMO Supported  Diagnostics tool Supported  Reboot at specified interval Supported  Scheduled reboot Supported	VLAN tagging for SSID	Supported
Diagnostics tool Supported  Reboot at specified interval Supported  Scheduled reboot Supported	LED control	Supported
Reboot at specified interval  Scheduled reboot  Supported	MU-MIMO	Supported
Scheduled reboot Supported	Diagnostics tool	Supported
	Reboot at specified interval	Supported
Device management Web, Router, CloudFi APP, AP Controller	Scheduled reboot	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	192.168.0.254
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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