# TOTO LINK
**The Smartest Network Device**
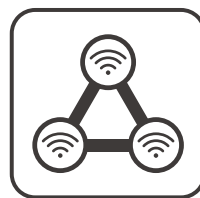
# Wi-Fi6 Smart Mesh System

X20 is a whole-house Wi-Fi6 product, which is a PoE (power over network) cluster routing set. The standard configuration has a master router and three Satellite routers.

**X20**



| Wi-Fi6 | Mesh Wi-Fi System | Seamless Roaming | 1201Mbps+ 574Mbps | Gigabit Ethernet | Satellite-router plug and play | OFDMA | MU-MIMO | IPTV |

# Overview

X20 is a whole-house Wi-Fi6 product, which is a PoE (power over network) cluster routing set.

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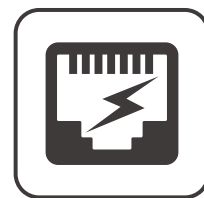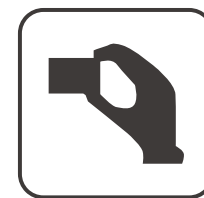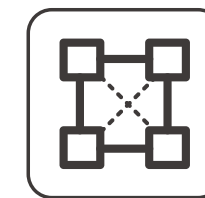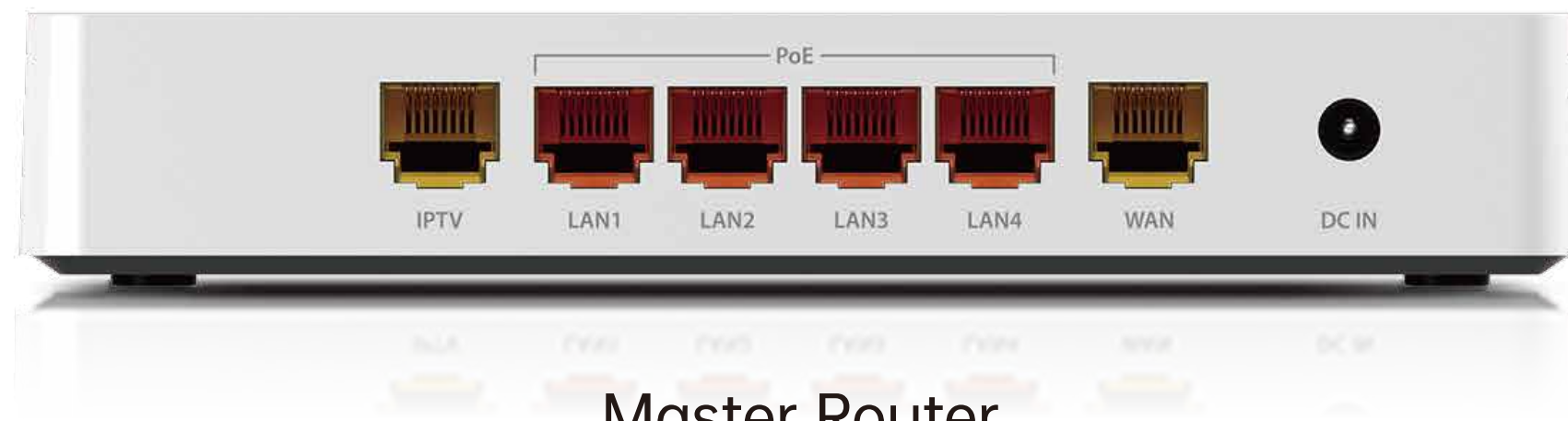It can provide a single Gigabit Ethernet port wired expansion, support Wi-Fi6 network, dual-band concurrent peak speed up to 1775Mbps.

Support Mesh networking function, X20 can easily and efficiently achieve Wi-Fi coverage even in a large apartment and multi-floor situation.

At the same time, the wireless roaming function helps exchange better signal sources, allowing you to stay connected and enjoy high-speed Wi-Fi in your home.

The X20 set is an ideal choice for high-speed Wi-Fi coverage of large-sized, multi-floor families.

Master Router

Satellite-routers

# Features

- Compliant with the next generation Wi-Fi 6
  (IEEE 802.11ax) standard.
- The maximum rate of 1201Mbps on 5GHz,
  and the maximum rate of 574Mbps on 2.4GHz,
  for a total of 1775Mbps.
- Supports gigabit wired networking + wireless blind
  compensation networking to achieve wide
  Wi-Fi coverage.
- Whole house Wi-Fi 6, super seamless roaming
  automatically switches to a stronger signal source.
- Satellite-router plug and play, convenient and fast.
- Satellite-router supports standard 802.3af standard
  POE power supply and TYPE-C 5V/2A power supply.
- OFDMA can increase the capacity and efficiency of
  the network, so you can connect more devices
  without reducing the Wi-Fi speed.
- TWT (Target Wake Time) technology reduces the
  power consumption of the device, thereby extending
  its battery life.

- MU-MIMO technology allows simultaneous transmission
  of data to multiple devices
- Beamforming technology improves directional signal
  transmission and increases bandwidth efficiency.
- The full gigabit port provides greater functions for
  data forwarding connected by cable.
- Support DHCP, static IP, PPPoE PPTP and L2TP broadband
  functions.
- Support WPA3 wireless security protocol to ensure
  network security.
- Support guest network, smart QoS, Wi-Fi scheduler.
- The parental control function on the router allows
  you to easily manage content and time online on
  any connected device.
- Easy setup and management through mobile UI and
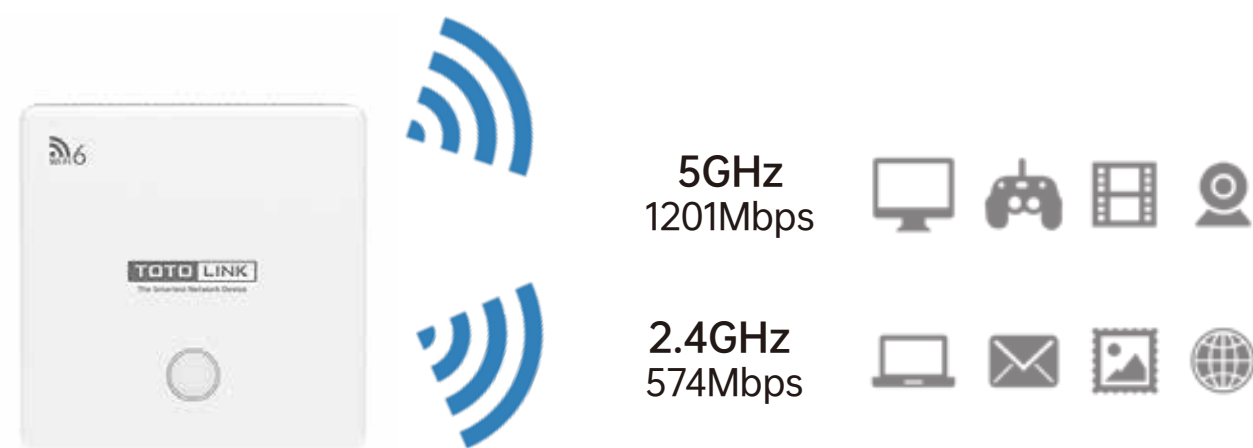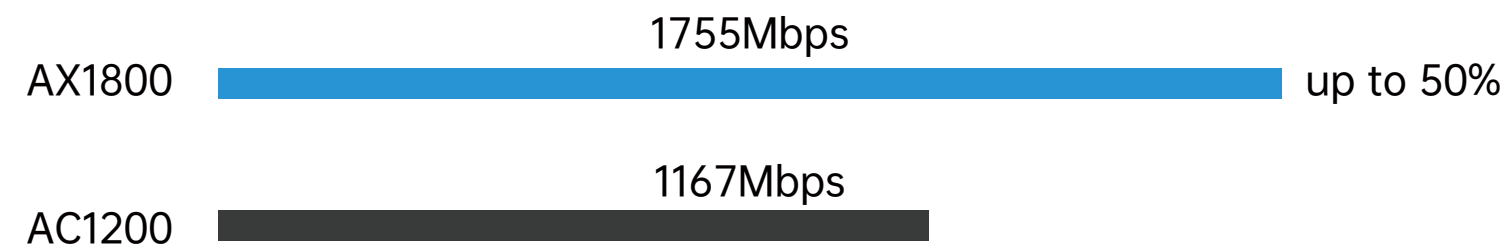  TOTOLINK APP.

# Highlights



## The whole house Wi-Fi 6

X20 supports a new generation of Wi-Fi 6 (IEEE802.11ax), which has a huge improvement in speed and total capacity. The package contains 1 master router and 3 Satellite routers.
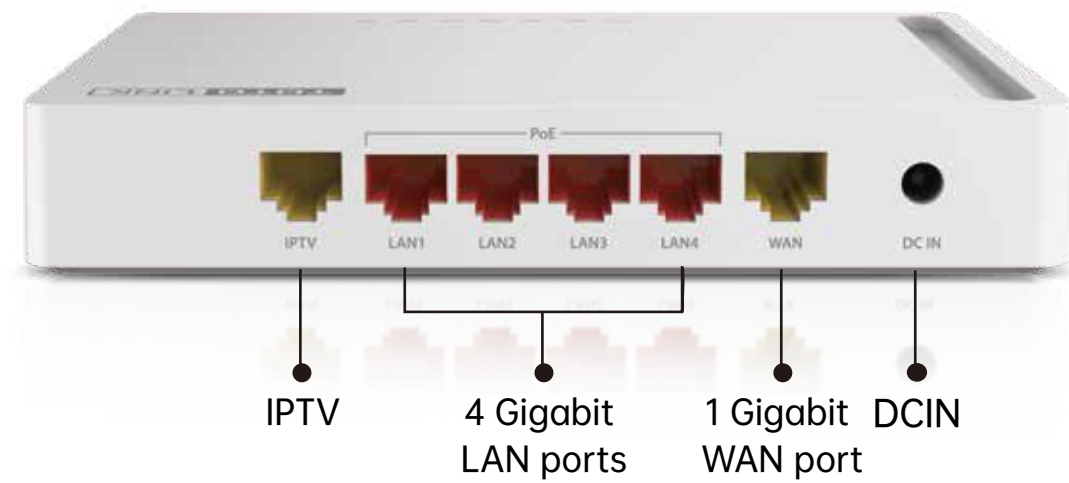The master routers placed in the fiber-optic entry box, and the Satellite router can be placed in the living room, bedroom, balcony, etc. One master router can drag up to 4 Satellite-routers, and it can be networked through multiple master routers to meet the needs of larger housing coverage.

1755Mbps

**AX1800**      up to 50%

1167Mbps

**AC1200**

## 1.8 Gbps ultra-fast Wi-Fi speed

X20 complies with the latest Wi-Fi 6 (IEEE802.11ax) standard, providing Wi-Fi speeds of up to 1201Mbps in the 5GHz band and 573.5Mbps in the 2.4GHz band. It can work on both 2.4GHz and 5GHz bands at the same time, and provides speeds up to 1.8 Gbps.
The Wi-Fi speed is greatly improved, and every application feels smoother. Both 2.4 GHz and 5 GHz bands have been upgraded to the latest generation-perfect for 4K streaming, online games and fast downloads.

**5GHz**
1201Mbps

**2.4GHz**
574Mbps

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The Smartest Network Device

# Highlights



IPTV     4 Gigabit     1 Gigabit   DCIN
LAN ports    WAN port

## Gigabit wired networking, more stable network speed

The master router adopts a full Gigabit Ethernet port design, and the optical fiber broadband is sent to each room through the network cable. Whether you are working in the living room, study or balcony, the internet speed is the same smoothly, helping you to smoothly remote meetings, video calls, uploading or downloading large files.



## Support wall mount

The bottom of the master router is designed with a card-type base, which is easy to disassemble and assemble and adapt to more usage scenarios. There are two ways to install the wall bracket: one is to fix it on the wall with screws; the other is to stick it on the smooth wall with 3M glue.



Mesh button     Mesh button

When the two lights turn blue, you can surf the Internet wirelessly.

## Wireless Blind Compensation Network

For the established wired networking, more Satellite-routers need to be added, and the Satellite-routers have a new wireless blind compensation networking function. Press the "Mesh" button on the Satellite-device to be added to automatically connect, flexibly arrange, and high-speed Wi-Fi covers every corner of the home.

# Highlights



## Plug and play, convenient and fast

The Satellite-router adopts a standard 86-type panel design, supports plug and play, PoE power supply mode, and no additional power supply is required. Plug in the internet cable and lightly stick the acrylic adhesive on the back to firmly stick to the original panel or wall.
In addition, a gigabit network port is reserved at the bottom of the Satellite-router, and computers and IPTV TVs can access the Internet through network cables.
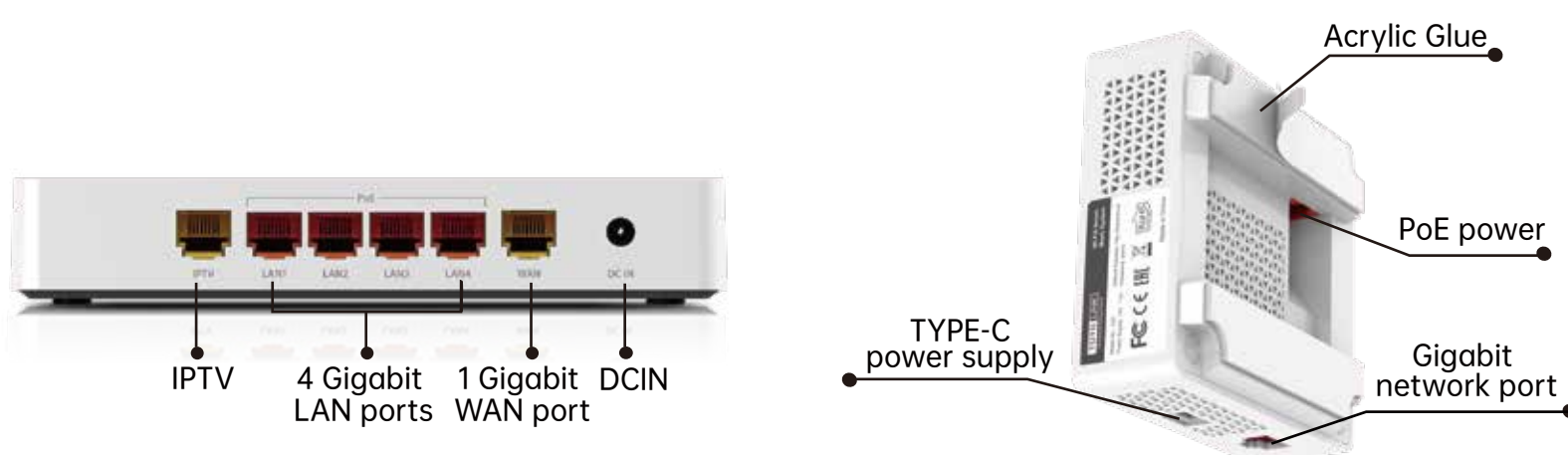


## Seamless roaming throughout the house

The Satellite router and the master router are wired by default from the factory.
The wired families can connect the routers through the network cable to make the interconnection between routers more stable. At the same time, it supports seamless roaming throughout the house, automatically switches high-speed wireless signals, long-term connection to high-quality Wi-Fi and uninterrupted Internet surfing.

# Specifications

## Hardware

| | |
|---|---|
| Interface | - Master router: 4*1000Mbps LAN ports,<br>  1*1000Mbps WAN port,<br>  1*1000Mbps IPTV port (master router)<br>- Satellite router: 1*1000Mbps LAN port, 1*1000Mbps<br>  POE/LAN port |
| Power supply | - Master router: 51V/1.2A DC/Input: 100-240V AC<br>- Satellite router: IEEE 802.3af standard PoE<br>                     and TYPE-C 5V/2A |
| Antenna | - 2*internal dual band antenna |
| Button | - Master router:   RST button<br>- Satellite router:   Mesh / RST button |
| LED indicator light | - Master router: 1*SYS、1*WAN、1*LAN4<br>                1*LAN3、1*LAN2、<br>                1*LAN1、1*IPTV(orange)<br>- Satellite router: 1*SYS(orange and blue) |



IPTV   4 Gigabit   1 Gigabit  DCIN
       LAN ports   WAN port

Acrylic Glue

PoE power

TYPE-C
power supply

Gigabit
network port

## Wireless

| | |
|---|---|
| Standard | - IEEE 802.11ax, IEEE 802.11ac, IEEE 802.11n,<br>- IEEE 802.11g, IEEE 802.11b, IEEE 802.11a |
| Frequency | - 2.4~2.4835GHz<br>- 5.150-5.250GHz, 5.725~5.850GHz |
| Rate | - 2.4GHz: Up to 574Mbps (2*2 40MHz)<br>- 5GHz: Up to 1201Mbps (2*2 80MHz) |
| output power | - 2.4GHz < 20dBm<br>- 5GHz < 20dBm |
| Wireless security | - 64/128-bit WEP, WPA, WPA2 and WPA-Mixed<br>- WPA3 |
| Receiving sensitivity | - 2.4G: 11b: <-81dbm;<br>         11g: <-68dbm;<br>         11n HT20: <-65dbm  HT40: <-62dbm<br>         11ax HE40: -48dB<br> - 5G: 11a: <-68dbm;<br>       11n: HT20<-65dbm<br>       HT40: <-62dbm<br>       11ac VHT80: <-51dbm<br>       11ax HE40: <-48dbm<br>       11ax HE80: <-46dbm |

# Specifications

## Software

| | |
|---|---|
| Home page | - Quick settings   - Basic settings   - Advanced settings |
| | - Exit   - Restart    - Multi-language automatic adaptation |
| Basic | - Internet settings   - Wireless settings   - Device management |
| | - Parental control   - Guest network   - Intelligent QoS |
| Mesh networking | - Mesh networking          -  Roaming |
| Network settings | - External network settings   - LAN settings |
| | - DDNS              - IPTV            - IPv6 |
| Wireless settings | - Wireless settings   - Guest network |
| Parental control | - Parental control based on MAC address |
| QoS | - WAN up/down speed control, bandwidth control based |
| | on IP address |
| Security Settings | - Router    - Static routing |
| | - IP/MAC address binding |
| NAT forwarding | - Virtual server   - DMZ |
| | - VPN penetration |
| system service | - Remote control   - UPnP |
| | - Restart regularly |

## Software

| | |
|---|---|
| Tools | - Change password   - Time zone setting   - System setting |
| | - Local firmware upgrade and online upgrade |
| | - Diagnosis   - Trace Route   - System Log |

## Others

| | |
|---|---|
| Package | - X20 Master router* 1 |
| | - X20 Satellite router* 3 |
| | - Power adapter* 1 |
| | - AC power cable* 1 |
| | - Double-sided tape* 2 |
| | - Ethernet cable* 1 |
| | - Satellite router Install the network cable* 3 |
| | - Mounting bracket*1 |
| | - QIG* 1 |
| Environment | - Operating temperature: 0℃~40℃ (32℉ ~104℉) |
| | - Storage temperature: -40℃~70℃ (-40 ℉~158℉) |
| | - Operating humidity: 10%~90% Non-condensing |
| | - Storage humidity: 5%~90% Non-condensing |