




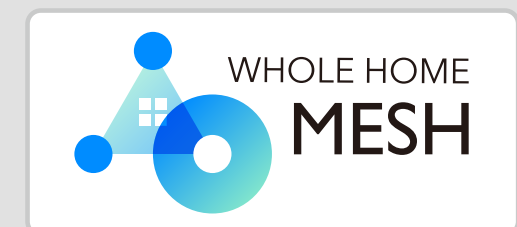
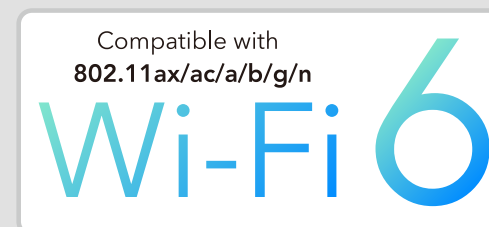
Model: M3000

AX3000

2.5G Whole-Whole Mesh Wi-Fi 6 System


-  1.3 GHz Dual-Core Cortex-A53 Processor
-  Super-Fast AX3000 Wi-Fi 6 Technology
-  Multi-Gig 2.5 Gbps Ethernet Port
-  Highest 160 MHz Bandwidth in Wi-Fi 6
-  Reduce Latency with DL/UL OFDMA, DL/UL MU-MIMO
-  TR069/TR098/TR181/TR111

[Datasheet](#)



Wi-Fi 6
Next Generation WiFi 6

1.3GHz
Dual Core Processor




160 MHz Bandwidth
Highest Bandwidth in Wi-Fi 6
Unleashes Multi-Gig Wi-Fi

AX3000
Extremely-Fast WiFi

2.5Gbps
WAN Port


MU-MIMO


Dual Band

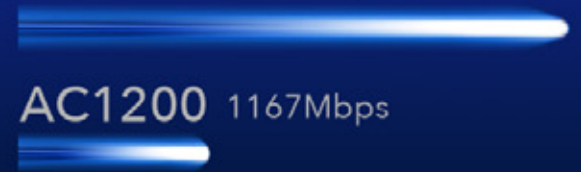
Wi-Fi 6 - Super-Fast Wi-Fi for More Devices

4X
more capacity




150%
increase in data throughput

AX3000 2976Mbps



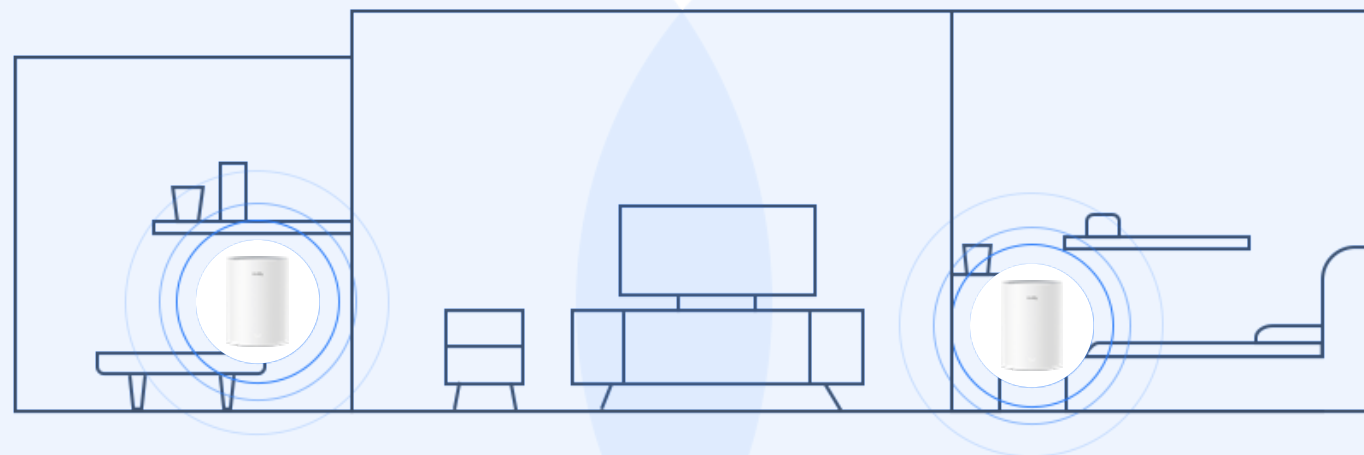
AC1200 1167Mbps

100%
backwards compatibility

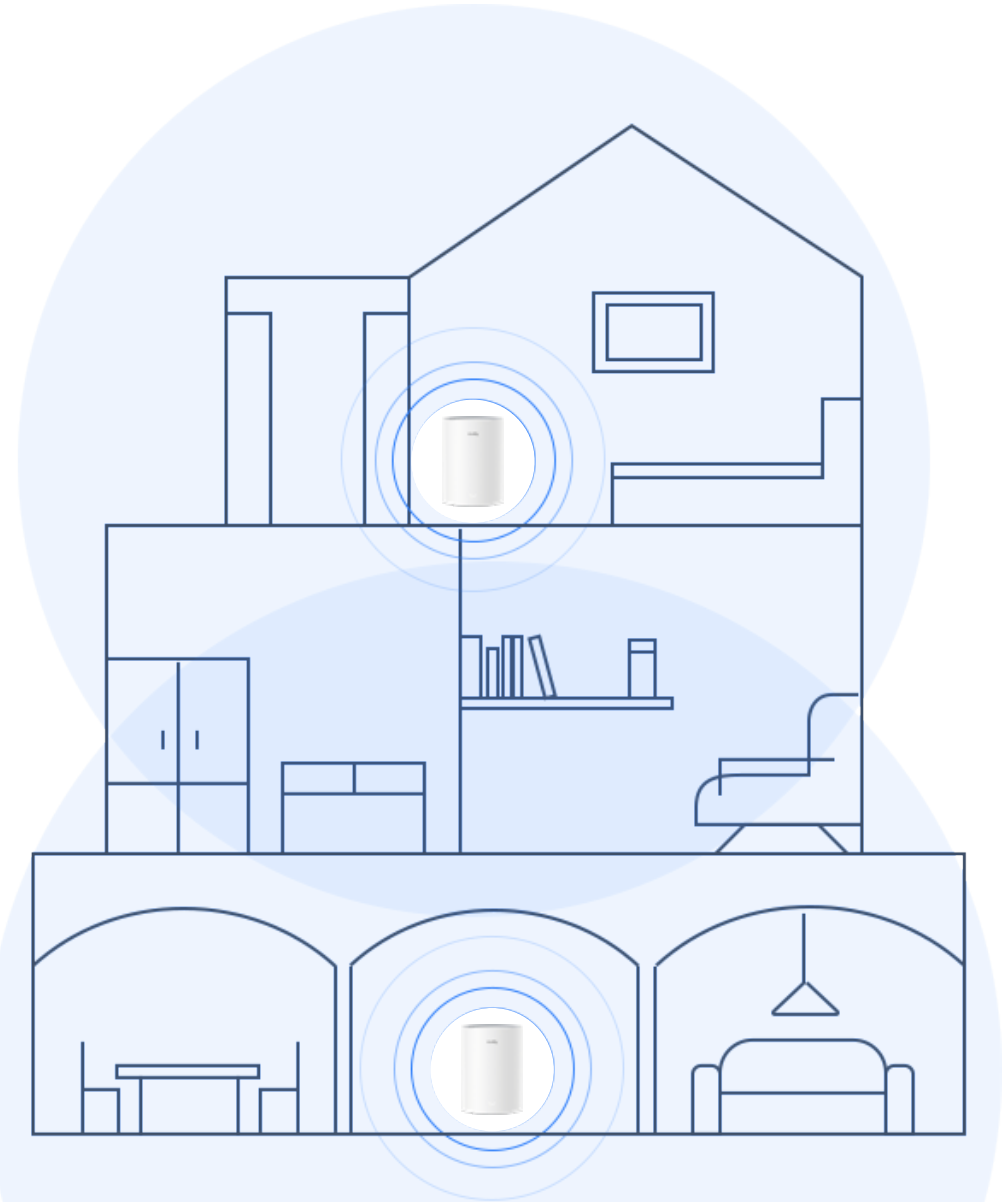


Whole Home Mesh, Dead Zone Killer

With Cudy Mesh Wi-Fi 6 System, you'll enjoy advanced whole home WiFi designed to deliver smooth video streaming and fast online gaming to more devices at the same time. Experience the next generation of WiFi 6, perfect for medium to large homes. Want more coverage? Simply add another one.



Apartment



Multi-Story Home

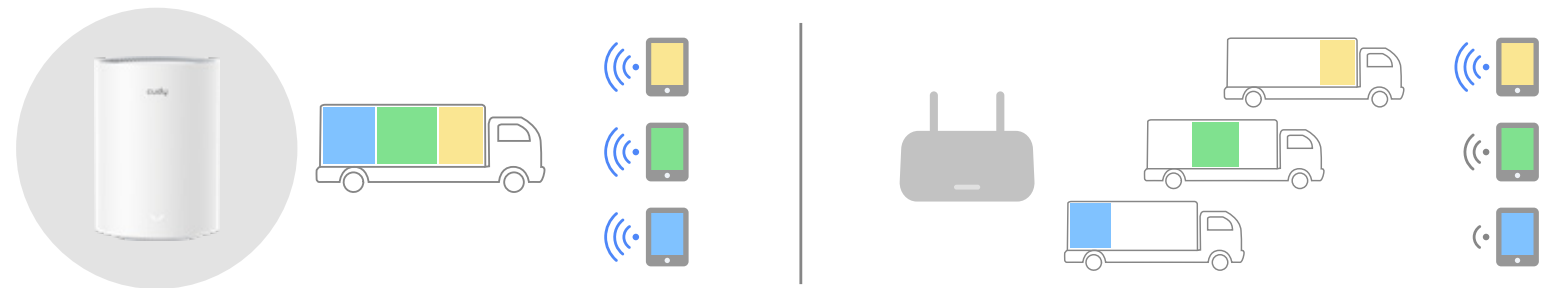


Up to 3 Gbps Wi-Fi 6 Speed:
Enjoy smooth streaming,
downloading, and gaming
with extremely fast Wi-Fi 6
Speed.

2.5 Gbps WAN Port

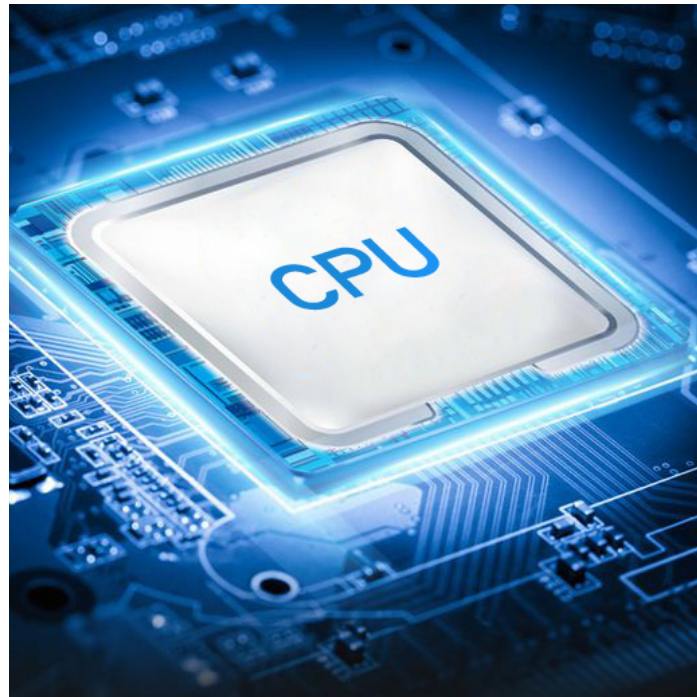
Featured with 10/100/1000Mbps
ports, greatly expands your network
capacity, enabling instant large files
transferring.

2402 Mbps (5 GHz)
574 Mbps (2.4 GHz)



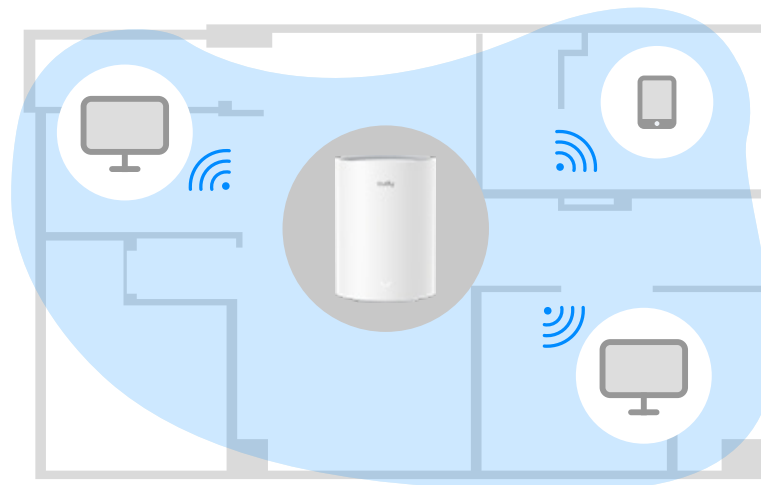
More Devices: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.

Features

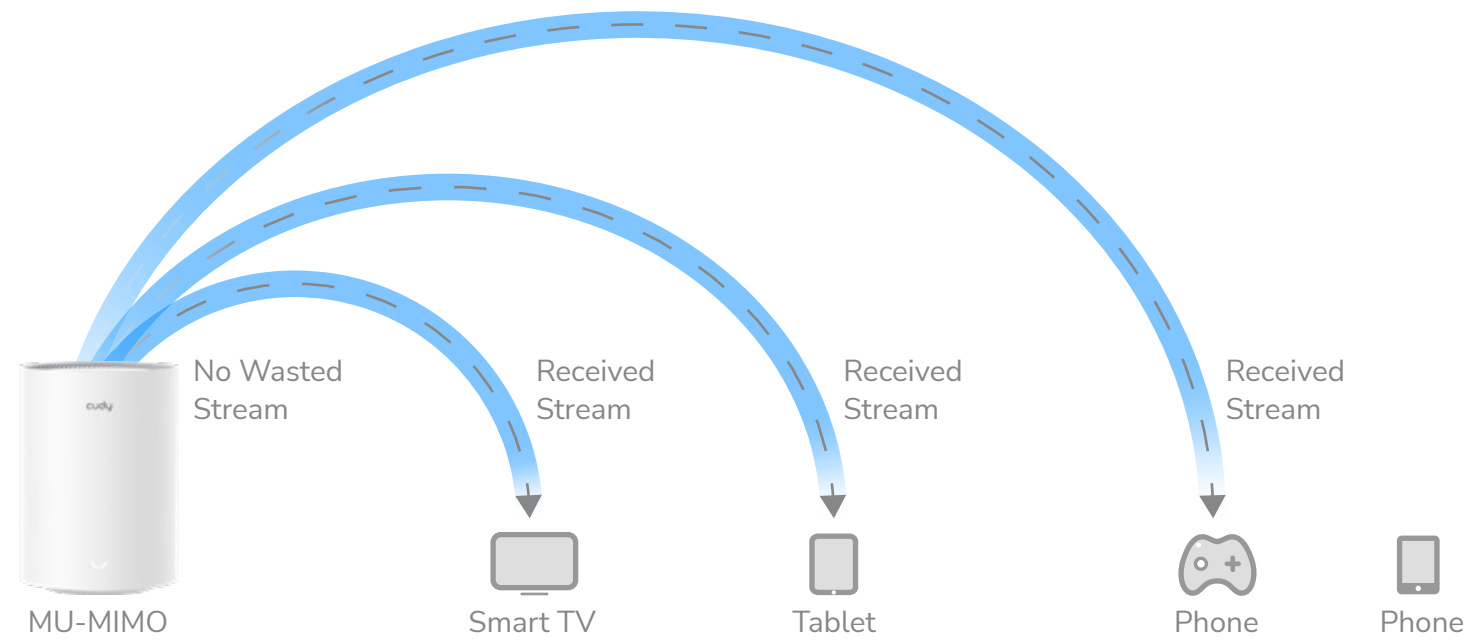


Powerful Dual-Core Processor

Powerful Dual-Core CPU ensures smooth 4K UHD streaming to Smart TVs, mobile devices and gaming consoles without buffering.



Extensive Coverage: Beamforming, and five antennas combine to deliver focused reception to devices far away.



MU-MIMO

Transfer at the same time

Software



VPN

With built-in VPN, this router can easily establish a connection to VPN Server to transport all your online data and traffic, securing it with its encryption at the same time.



DDNS

By assigning a custom domain name to your home router's IP address, DDNS function will update automatically as your home IP continues to change. Compatible with 15 more DDNS providers.



WPA3

The latest and cutting-edge Wi-Fi security protocol— WPA3 provides more secure and individualized encryption in personal password safety, protecting your network from wireless hacking.



Guest Network

Guest Network separate guest access from your family network. Maintain high security across your network to help ensure your privacy is safe while online.



Highlights

A mesh WiFi 6 system with five antennas to provide a super-fast network for large homes with 4K streaming and gaming demands. Suitable for internet access up to 2.5 Gbps.

- 1.3 GHz Dual-Core CPU
- 4-Stream Dual-Band Wi-Fi 6
- 2402 Mbps + 574 Mbps Wi-Fi
- 200 Connected Devices
- Fast Roaming
- Cudy Mesh, VPN Server and Client
- Multi-Band Simultaneous Backhaul
- Cudy App, Cloud Control

Package Content

- M3000
- Power Adapter
- Ethernet Cable
- Installation Guide

Hardware Features

| | | |
|------------------|--|--|
| CPU | CPU Details | 1.3 GHz Dual-Core, ARM Cortex-A53 |
| Memory/Storage | Flash/ROM | 128 MB (1 Gbit) NAND |
| | DDR/RAM | 256 MB (2 Gbit) DDR3 |
| Wireless | 5 GHz Wi-Fi Speed | 2402 Mbps |
| | 2.4 GHz Wi-Fi Speed | 574 Mbps |
| | 5 GHz Wi-Fi Streams | 2T2R (2×2 MIMO) |
| | 2.4 GHz Wi-Fi Streams | 2T2R (2×2 MIMO) |
| | Wi-Fi Antennas | 5× Internal |
| | 5 GHz Antenna Gain Max | 5.1dBi |
| | 2.4 GHz Antenna Gain Max | 4.2dBi |
| | FEM or PA/LNA | 5 GHz: 2× Internal 2.4 GHz: 2× Internal |
| | Beamforming | True |
| | Range Performance | Max: 220 m (722 ft) Indoor WiFi range varies depending on the layout and wall materials. See Wall Performance spec for placement suggestions. |
| Wall Performance | Two wooden walls with thickness < 10 cm (4") One concrete wall with thickness < 20 cm (7") or two concrete walls with thickness < 10 cm (4") | |



Hardware Features

| | | |
|--|----------------------------|---|
| Wireless | Indoor Coverage Reference | 2 Pack: 200 m ² (2150 sq ft) |
| | | 3 Pack: 270 m ² (2900 sq ft) |
| Applied to wireless backhaul situation. Place in the center of each floor, with a maximum of three obstacles to each room. | | |
| Interfaces | 2.5G RJ45 Ports | 1 |
| | Gigabit RJ45 Ports | 1 |
| | Ethernet Notes | The 2.5G port is the WAN port, the Gigabit port is LAN port |
| | LED | System |
| | | Speed/Link/ACT of Ethernet Port |
| | Physical Buttons | WPS Button Reset Button |
| | Power Input | DC Jack |
| Power | Power Methods | DC |
| | DC | 12V 1A |
| | Power Adapter | Input: 100 ~ 240 V, 50/60 Hz AC Output: 12V 1A DC |
| | Max Power Consumption (W) | 11.5W |
| | Idle Power Consumption (W) | 4.2W |

| | | |
|----------------------|----------------|--|
| Reliability | Environment | Operating Temperature: 0 °C ~ 40 °C (32 °F ~104 °F) |
| | | Storage Temperature: -40 °C ~ 70 °C (-40 °F ~ 158 °F) |
| | | Humidity: 10% ~ 90% non-condensing |
| | | Storage Humidity: 5% ~ 95% non-condensing |
| Certifications | FCC, CE | |
| Mechanical | Installation | Desktop |
| | Dimension | Φ110×154.5 mm Φ4.33×6.08 inches |
| | Product Weight | 360 g (12.7 oz.) |
| Ordering Information | Retail Package | 1-Pack EU / US: 680 g (23.99 oz.) |
| Information | Weight | 2-Pack EU / US: 1370 g (48.33 oz.) |
| | Retail Package | 1-Pack: |
| | Dimension | 145×130×265 mm 5.71×5.12×10.43 inches |
| | | 2-Pack: |
| | | 330×130×265 mm 12.99×5.12×10.43 inches |
| | 3-Pack: | |
| | | 380×130×265 mm 14.96×5.12×10.43 inches |



Hardware Features

| | | |
|----------------------|------------------|---------------------------------------|
| Ordering Information | Units per Carton | 1-Pack: 16 |
| | | 2-Pack: 8 |
| | | 3-Pack: 4 |
| Carton Dimension | | 1-Pack: 57×56×26 cm |
| | | 22.44×22.05×10.24 inches |
| | | 2-Pack: 55×54.5×35.3 cm |
| | | 21.65×21.46×13.9 inches |
| Carton Gross Weight | | 3-Pack: 53.6×40×28.7 cm |
| | | 21.1×15.75×11.3 inches |
| | | 1-Pack EU / US: 12.2 kg (26.9 lbs) |
| | | 2-Pack EU / US: 12.3 kg (27.12 lbs) |
| Carton Net Weight | | 1-Pack EU / US: 10.9 kg (24.03 lbs) |
| | | 2-Pack EU / US: 11.0 kg (24.25 lbs) |

Software Features

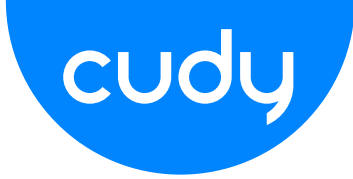
| | | |
|---------------------|--------------------------------|-------------------|
| Wireless | Wi-Fi Standards | Wi-Fi 6 |
| | Max Wi-Fi Modulation | 1024-QAM |
| | Wi-Fi Efficiency | OFDMA |
| | | MU-MIMO |
| | | BSS Color |
| | Max Capacity | 512 |
| | Recommended Client Upper Limit | 200 |
| | Max Wi-Fi Channel Width | 160 MHz |
| | Wi-Fi Security | WPA/WPA2/WPA3 |
| | Guest Network | 2.4 GHz, 5 GHz |
| WPS | True | |
| General | Operation Modes | Wi-Fi Router |
| | | Access Point |
| | | Range Extender |
| | | WISP |
| | | Client |
| | Mesh | Cudy Mesh |
| | Mesh Backhaul | Wireless Backhaul |
| Wired Backhaul | | |
| Multi-Band Backhaul | True | |



Software Features

| | | |
|----------------------------|----------------|------------------------|
| General | WAN Mode | DHCP |
| | | Static IP |
| | | PPPOE |
| | | PPTP |
| | | L2TP |
| Internet Failover Sequence | WAN | |
| | WISP | |
| Network | QoS | Per-User Rate Limiting |
| | DHCP | Address Reservation |
| | | DHCP Client List |
| | | Server |
| | IP Versions | IPv4/IPv6 |
| | IPv6 Protocols | Relay |
| | | Dynamic (SLAAC/DHCPv6) |
| | | Static (Fixed IP) |
| | | Passthrough |
| | | 464XLAT |
| | | MAP-E |
| | IPTV/VLAN | DS-Lite |
| | | Bridge |
| Tag VLAN | | |
| VoIP VLAN | | |
| | IPTV VLAN | |

| | | |
|------------------|---------------------------|-------------------|
| Network | TTL Customization | Extend |
| | | Spoof |
| | | Custom |
| | IGMP | IGMP Proxy |
| | | IGMP Snooping |
| | Forwarding | Port Forwarding |
| | | Port Triggering |
| | | UPnP |
| | Firewall | DMZ |
| | | SPI Firewall |
| | | DoS Protection |
| | | Block PING |
| | Application Layer Gateway | IPSec Passthrough |
| L2TP Passthrough | | |
| PPTP Passthrough | | |
| FTP Passthrough | | |
| TFTP Passthrough | | |
| H323 Passthrough | | |
| | SIP Passthrough | |
| | RTSP Passthrough | |



Software Features

| | | |
|-----------|------------------------|-----------------------|
| Utilities | VPN Server | WireGuard |
| | | OpenVPN |
| | | IPsec |
| | | Zerotier |
| | | PPTP |
| | | L2TP |
| | VPN Client | WireGuard |
| | | OpenVPN |
| | | IPsec |
| | | Zerotier |
| | | PPTP |
| | | L2TP |
| | DNS Options | DNS over TLS |
| | | Manual DNS |
| | | Rebind Protection |
| | | Override Clients' DNS |
| | DNS over TLS Providers | Cloudflare |
| | | Google |
| | | Quad9 |
| | | Custom |
| | Wake on LAN | True |
| | Online Detection | True |

| | | |
|------------|------------------------|-------------------------|
| Management | All Devices Management | Wi-Fi Time Schedule |
| | | MAC Filter |
| | | IP/MAC Binding |
| | Per-Devices Management | Internet On/Off |
| | | VPN On/Off |
| | | Online Time Schedule |
| | | Device Rename |
| | Content Management | Domain Filter |
| | | IP Filter |
| System | LED Control | True |
| | Local Control Method | Config Web Page |
| | | App Control |
| | Remote Control Method | Config Page via HTTPS |
| | | App Control |
| | | TR069/TR098/TR111/TR181 |
| | Firmware Upgrade | Local Update |
| | | App (Over the Air) |
| | | Online Update |
| | Reliability | Timed Reboot |
| | | Backup and Restore |



Software Features

| | | |
|-----------|------------------|--|
| System | Diagnostic Tools | Diagnosis |
| | | Ping |
| | | Traceroute |
| | | NSLookup |
| | | System Log |
| | Languages | <ul style="list-style-type: none">• English • Bengali • Catalan • Czech • German• Greek • Spanish • French • Hebrew • Croatian• Hungarian • Italian • Japanese • Khmer • Korean• Dutch • Norwegian • Polish • Portuguese• Romanian • Russian • Slovak • Swedish• Thai • Turkish • Ukrainian • Vietnamese• Simplified Chinese • Traditional Chinese |
| Dashboard | Panel | Internet Status |
| | | Mesh Status |
| | | Devices Management |
| | | WAN Status |
| | | LAN Status |
| | | WISP Status |
| | | Wi-Fi Status |
| | | VPN Status |
| | | DHCP Server Status |
| | | System Version |

| | | |
|-----------|--------|----------------|
| Dashboard | Charts | Mesh Topology |
| | | Internet Speed |
| | | WISP Speed |
| | | Wi-Fi Speed |