



AC2200 WiFi Mesh Router System

TEW-830MDR2K (v1.0R)

- AC2200: 5GHz1: 867Mbps WiFi AC | 5GHz2: 867Mbps WiFi AC | 2.4GHz: 400Mbps WiFi N
- Includes 2 x AC2200 WiFi Mesh Routers
- Designed to replace older WiFi routers, extenders, and signal boosters
- Intelligent WiFi mesh technology always connects users to the best WiFi Mesh Router
- Add additional AC2200 Mesh Routers to the system for expanded WiFi coverage in larger home applications

- Airtime fairness balances wireless client bandwidth resources
- Content filtering with Router Limits[™]
- LAN/WAN IPv6 support
- Multi-User MIMO for increased bandwidth efficiency and better user experience*
- Seamless WiFi roaming
- USB 3.0 port with Samba support
- Implicit/Explicit Beamforming

TRENDnet's AC2200 WiFi Mesh Router System is designed to blanket your home or small office in seamless WiFi coverage. The AC2200 WiFi Mesh Router System provides ample coverage for up to a 4,000 square foot home. For larger homes, simply add additional AC2200 WiFi Mesh Routers to the system for expanded WiFi coverage.

The WiFi mesh router system uses an intuitive app-based installation process, making setup a breeze using our TRENDnet WiFi Mesh app. In minutes, you'll have your AC2200 WiFi Mesh Router System up and running providing whole home WiFi coverage.

Our WiFi mesh router system also includes cutting-edge content filtering powered by Router Limits[™]. Router Limits' innovative tools offer an enhanced user experience for device-level scheduling and filtering capabilities. By offering access to these advanced web content filtering and productivity tools, the mesh router system allows you to take control of the Internet, whether it be for your business or your home.



Mesh Made Simple

The WiFi mesh router system uses an intuitive app-based installation process, making setup a breeze using our TRENDnet WiFi Mesh app.



Router Limits

Router Limits' innovative tools offer an enhanced user experience for device-level scheduling and filtering capabilities. Offering access to these advanced web content filtering and productivity tools allows you to take control of your Internet, whether it be for business or home.



Airtime Fairness

This smart WiFi feature calculates and determines which clients have priority over others. Clients that are faster and closer to the mesh router will have the highest priority, while clients that are slower and farther away will have lower priority, freeing up valuable WiFi resources.



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FEATURES



Mesh Made Simple

Airtime Fairness

The WiFi mesh router system uses an intuitive app-based installation process, making setup a breeze using our TRENDnet WiFi Mesh app

This smart WiFi feature calculates and

determines which clients have priority

over others. Clients that are faster and

closer to the Mesh Router will have

the highest priority while clients that

are slower and farther away will have

The TRENDnet WiFi Mesh app allows

you to monitor each WiFi mesh router

and connection status of network

lower priority, freeing up WiFi



Whole Home WiFi Coverage

The AC2200 WiFi Mesh Router System provides ample coverage for up to a 4,000 square foot home. For larger homes, simply add additional AC2200 WiFi Mesh Routers to the system for expanded WiFi coverage

Band Steering

With band steering technology, the mesh router system alleviates network congestion by automatically directing wireless devices from the 2.4GHz band to the 5GHz band

Parental Controls

Gigabit Ports

Limit access to specific websites and control connected device access to the network



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IPv6

resources

devices

Monitoring

IPv6 network support

SPECIFICATIONS

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (up to 400Mbps @ 256QAM)*
- IEEE 802.11ac (5GHz1: up to 867Mbps, 5GHz2: up to 867Mbps @ 256QAM)*

Device Interface

- 1 x Gigabit LAN port
- 1 x Gigabit WAN port
- 1 x USB 3.0 (Samba)
- Reset button
- LED indicator

Special Features

Port

- · Easily expand your WiFi mesh network coverage with additional TRENDnet WiFi mesh router
- Multi-User MIMO for increased bandwidth efficiency and better user experience*
- Seamless WiFi roaming
- Multi-Language app interface: English, Traditional Chinese, German, Italian, Swedish, French, Spanish, Dutch
- IPv6 support
- Samba support
- Implicit/Explicit Beamforming
- Band Steering



Router Limits

Router Limits' innovative tools offers an enhanced user experience for device-level scheduling and filtering capabilities. Offering access to these advanced web content filtering and productivity tools allows you to take control of your Internet, whether it be for business or home



Targeted Beamforming

Beamforming increases real-time performance by directing stronger wireless signals to your specific location. Beamforming improves wireless range, reception, and throughput



Guest Network

Create an isolated WiFi network for guest internet access



USB 3.0 Share Port

Share content across the network with the USB 3.0 share port on each mesh router

Access Control

- WiFi encryption: WPA/WPA2-PSK AES
- · WiFi Guest network
- Hide WiFi Name/SSID
- Wireless client isolation
- NAT
- Port forwarding
- DMZ host
- UPnP
- DoS prevention
- Allow/deny WAN ping requests
- · Parental controls (Set schedules for Internet access or filter by keyword or custom websites)
- · Manage screen time, filter content, monitor bandwidth, and track browsing history with Router Limits[™] web management system

Quality of Service

- Set client device priority (Normal/High priority)
- WMM

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Internet Connection Types

- Dynamic IP (DHCP)
- Static IP (Fixed)
- PPPoE (Dynamic IP/Static IP)
- PPTP (Dynamic IP/Static IP)
- L2TP(Dynamic IP/Static IP)
- IPv6 (Static, Auto-configuration (SLAAC/ DHCPv6), Link-Local, PPPoE, 6rd)

Management/Monitoring

- HTTP/HTTPS local/remote web-based management
- Internal system logging
- Mesh connection quality display
- Client device list
- Internet speed test
- Manual or online firmware upgrade and notification
- · Backup and restore configuration
- Internal logging
- Restore to factory default
- Router/Bridge operation modes
- Static routes

Frequency

- 2.412 2.472GHz
- 5.180 5.825GHz

Modulation

- 802.11b: CCK, DQPSK, DBPSK
- 802.11a/g: OFDM with BPSK, QPSK and 16/ 64-QAM
- 802.11n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM with OFDM
- 802.11ac: OFDM with BPSK, QPSK and 16/64/ 256-QAM

Media Access Protocol

CSMA/CA with ACK

Antenna Gain

• 2.4GHz: 2 x 4.03 dBi (max.) / 5GHz: 4 x 5.64 dBi internal antennas

Receiving Sensitivity

- 802.11a: -73 dBm (typical) @ 54Mbps
- 802.11b: -90 dBm (typical) @ 11Mbps
- 802.11g: -76 dBm (typical) @ 54Mbps
- 802.11n (2.4GHz): -89 dBm (typical) @ 300Mbps
- 802.11n (5GHz): -86 dBm (typical) @ 300Mbps
- 802.11ac: -83 dBm (typical) @ 867Mbps

Wireless Channels

- 2.4GHz: FCC: 1-11
- 5GHz: FCC: 36, 40, 44, 48, 149, 153, 157, 161, 165

Power

- Input: 100 240V AC, 50/60Hz
- Output: 12V DC, 1.5A external power adapter
- Max. Consumption: 15.12W

Operating Temperature

• 0° - 40° C (32° - 104° F)

Operating Humidity

Max. 90% non-condensing

Certifications

- FCC
- IC

Dimensions

• 126 x 126 x 60mm (4.96 x 4.96 x 2.36 in.) per unit

Weight

• 372g (13.1 oz.) per unit

Warranty

3 year

Package Contents

- 2 x TEW-830MDR
- Quick Installation Guide
- 2 x Network cable 0.5m (1.6 ft.)
- 2 x Power adapter (12V DC, 1.5A)
- Wall mount screws

*Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depending on interference, network traffic, building materials, and other conditions. For maximum performance of up to 867Mbps, use with a 867Mbps 802.11ac wireless adapter. For maximum performance of up to 400Mbps, use with a 400Mbps 802.11n wireless adapter. Multi-User MIMO (MU-MIMO) requires the use of multiple MU-MIMO enabled wireless adapters.

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