



AC1200 Dual Band WiFi Router

TEW-831DR (v1.0R)

- AC1200: 867Mbps Wireless AC + 300Mbps Wireless N
- 1 x Gigabit WAN port
- 3 x 10/100Mbps LAN ports
- 4 x 5 dBi dual band antennas
- Internet bandwidth controls
- Pre-encrypted for your convenience
- One touch network connection with the WPS button
- LAN/WAN IPv6 Support
- Multi-User MIMO (MU-MIMO) support

TRENDnet's AC1200 Dual Band WiFi Router, model TEW-831DR, is a high-speed wireless ac router designed to handle multiple HD streams in a busy connected home. This dual band wireless ac router creates two concurrent wireless networks—a high performance 867Mbps wireless AC network, and a 300Mbps wireless N network for wireless device connections. For added convenience, the wireless networks are pre-encrypted out of the box.



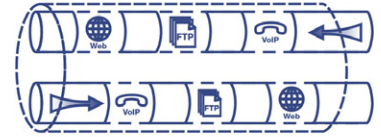
Pre-Encrypted

For your convenience, the wireless networks are pre-encrypted with unique passwords.



5dBi External Antennas

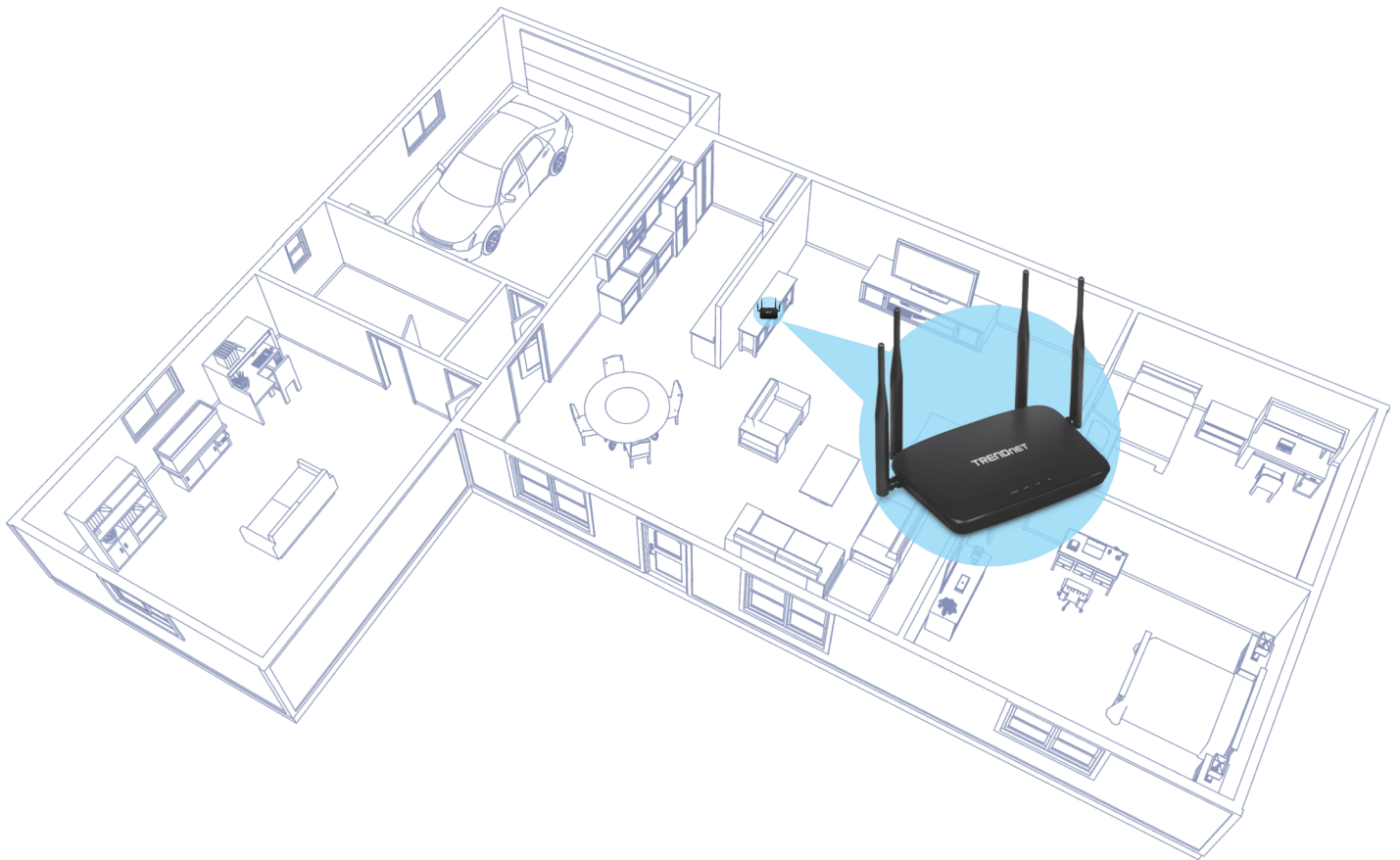
4 x 5dBi external antennas provide extended wireless coverage.



Internet Bandwidth Controls

Control access to the internet and manage bandwidth for devices connected to the wireless ac router.

NETWORKING SOLUTION



FEATURES



Easy Setup

Install in minutes with the intuitive setup



One Touch Connection

Connect to the wireless ac router using the Wi-Fi Protected Setup (WPS) button



Pre-Encrypted

For your convenience, the wireless network is pre-encrypted with its own unique password



Access Controls

Control access to specific websites and manage which devices can access the internet



Fast Ethernet Ports

10/100 Mbps Ethernet ports connect up to three devices



Wireless Coverage

4 x 5dBi antennas on this wireless ac router provide extended wireless coverage

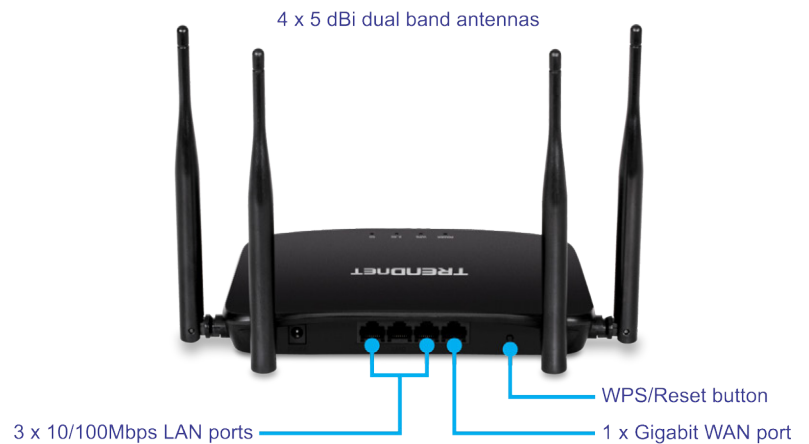


IPv6

IPv6 network support



LED indicators



4 x 5 dBi dual band antennas

3 x 10/100Mbps LAN ports

WPS/Reset button

1 x Gigabit WAN port

SPECIFICATIONS

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.1Q
- IEEE 802.1p
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (up to 300Mbps)*
- IEEE 802.11ac (up to 867Mbps)*

Device Interface

- 3 x 10/100Mbps LAN ports
- 1 x Gigabit WAN port
- WPS/Reset button
- LED indicators

Special Features

- IEEE 802.1Q tagged-based VLAN
- Bandwidth controls
- MU-MIMO
- 4 x 5 dBi dual band antennas
- IPv6 support
- Multi-Language interface: English, Spanish, French, German, Russian/Portuguese
- Pre-encrypted wireless network
- TR-069

Access Control

- Wireless encryption: 64/128-bits WEP; WPA/WPA2
- NAT, virtual server/port forwarding, port triggering, firewall traffic rules, DMZ host, UPnP/NAT-PMP, allow/deny ping on WAN interface
- ALG: PPTP/L2TP/IPsec VPN passthrough, FTP/TFTP/SIP/RTSP/IRC/H.323 passthrough
- MAC, IP, Domain name, Application filtering
- Wireless client isolation
- DoS prevention

Quality of Service

- WMM
- Management/Monitoring
- HTTP/HTTPS web-based management
- Internal system logging
- Manual firmware upgrade
- Backup and restore configuration
- Diagnostic tools: Built-in ping and traceroute network utilities

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

- 4 x 5 dBi Fixed Antenna

Wireless Output Power

- 802.11a: FCC: 16 dBm (max.) / CE: 16 dBm (max.) / IC: 16 dBm (max.)
- 802.11b: FCC: 18 dBm (max.) / CE: 18 dBm (max.) / IC: 18 dBm (max.)
- 802.11g: FCC: 17 dBm (max.) / CE: 17 dBm (max.) / IC: 17 dBm (max.)
- 802.11n (2.4GHz): FCC: 17 dBm (max.) / CE: 17 dBm (max.) / IC: 17 dBm (max.)
- 802.11n (5GHz): FCC: 15 dBm (max.) / CE: 15 dBm (max.) / IC: 15 dBm (max.)
- 802.11ac: FCC: 13 dBm (max.) / CE: 13 dBm (max.) / IC: 13 dBm (max.)

Receiving Sensitivity

- 802.11a: -75 dBm (typical) @ 54Mbps
- 802.11b: -90 dBm (typical) @ 11Mbps
- 802.11g: -72 dBm (typical) @ 54Mbps
- 802.11n (2.4GHz): -72 dBm (typical) @ 300Mbps
- 802.11n (5GHz): -72 dBm (typical) @ 867Mbps
- 802.11ac: -61 dBm (typical) @ 867Mbps

Wireless Channels

- 2.4GHz: FCC: 1–11, ETSI: 1-13
- 5GHz: FCC: 36, 40, 44, 48, 149, 153, 157, 161, 165, ETSI: 36, 40, 44, 48, (52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140)**

Power

- Input: 100 – 240V AC, 50 – 60Hz, 1A
- Output: 12V DC, 1A external power adapter
- Max. Consumption: 5.68W

Operating Temperature

- 0° – 40° C (32° – 104° F)

Operating Humidity

- Max. 90% non-condensing

Certifications

- FCC
- IC

Dimensions (L x W x H)

- 239 x 155 x 30mm (9.4 x 6.1 x 1.18 in.)

Weight

- 228g (8 oz.)

Warranty

- 3 year

Package Contents

- TEW-831DR
- Quick Installation Guide
- Network cable (1.5m / 5 ft.)
- Power adapter (12V DC, 1A)

*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 an 867Mbps 802.11ac wireless adapter. For maximum performance of up to 300Mbps, use with a 300Mbps 802.11n wireless adapter. Multi-User MIMO (MU-MIMO) requires the use of multiple MU-MIMO enabled wireless adapters.

**Due to regulatory requirements, the wireless channels specified cannot be statically assigned, but will be available within the available wireless channels when set to auto.

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.