



AC1750 Dual Band Wireless Router

TEW-823DRU (v1.0R)

- AC1750: 1300 Mbps Wireless AC + 450 Mbps Wireless N bands*
- Pre-encrypted for your convenience
- Create an isolated guest network
- One touch network connection with the WPS button
- All Gigabit wired ports
- USB share port
- High power amplifiers extend wireless coverage
- Energy saving GREENnet technology

TRENDnet's AC1750 Dual Band Wireless Router, model TEW-823DRU, is an extreme performance wireless router. It creates two concurrent wireless networks—a 1300 Mbps Wireless AC network and a 450 Mbps Wireless N network to connect common wireless devices. Use the USB port and Gigabit Ethernet ports to further expand your network.

Ease of Use



Easy Setup

Get up and running in minutes with the intuitive guided setup



One Touch Connection

Securely connect to the router at the touch of the Wi-Fi Protected Setup (WPS) button



USB Share Port

Plug in a flash or storage drive into the USB port

Access Control



Encrypted Wireless

For your convenience the router arrives pre-encrypted with its own unique password



Guest Network

Create an isolated network for guest internet access only



Parental Controls

Control access to specific websites or types of content

Performance



Next Generation Wireless AC

802.11ac provides uninterrupted HD video streaming in a busy connected home



Simultaneous Dual Band

High speed 1300 Mbps Wireless AC band + 450 Mbps Wireless N



Gigabit Ports

Gigabit ports extend high performance wired connections



Wireless Coverage

Whole home wireless coverage for average size homes



Backward Compatible

Compatible with legacy wireless devices



Targeted Beamforming

Increased real-time performance by directing stronger wireless signals to your specific location



Energy Savings

Embedded GREENnet technology reduces power consumption by up to 50%

Networking Solution

HD 3D movies

HD gaming

Music

Surfing

Web chat

E-mail



USB 2.0

WPS button

Gigabit

WAN

Power on/off button

Power

Specifications

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3az
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (2.4 GHz 450 Mbps, 5 GHz up to 450 Mbps)
- IEEE 802.11ac (draft 2.0, up to 1300 Mbps)

Hardware Interface

- 4 x Gigabit LAN ports
- 1 x Gigabit WAN port
- 1 x USB 2.0 (Storage FTP, Samba)
- Power switch
- WPS button
- Reset button
- LED indicators

Special Features

- Multi-Language interface: English, French, Spanish, German, Russian
- Pre-encrypted wireless network
- IPv6 support
- 1 guest network per band with option for internet access only
- Up to 2 additional SSIDs per band
- Dynamic DNS support for dyn.com, no-ip.com, and easydns.com
- Samba/FTP server support
- Implicit and Explicit Beamforming

Access Control

- Wireless encryption up to WEP, WPA/WPA2-PSK, WPA/WPA2-RADIUS
- Firewall: NAT, SPI, Virtual Server, Special Applications, Gaming, DMZ Host, allow/deny ping request from internet
- ALG: PPTP/L2TP/IPsec VPN Passthrough, TFTP/FTP/RTSP/SIP/H.323 Passthrough
- Parental (Access) Controls: MAC, URL, IP Filter

Quality of Service

- WMM
- Inbound/outbound 5 priority queues

Internet Connection Types

- Dynamic IP (DHCP)
- Static IP (Fixed)
- PPPoE (Dynamic IP/Static IP)
- PPTP (Dynamic IP/Static IP)
- L2TP (Dynamic IP/Static IP)
- Russia PPPoE (Dynamic IP/Static IP)
- Russia PPTP (Dynamic IP/Static IP)
- Russia L2TP (Dynamic IP/Static IP)
- IPv6 (Static, Auto-configuration (SLAAC/DHCPv6), Link-Local, PPPoE, 6to4)

Management/Monitoring

- Local/remote web based management
- Upgrade firmware
- Backup/restore configuration
- Internal logging
- Reboot
- Restore to factory defaults
- Ping test

Routing

- Static
- Dynamic (RIP v1/2)

Frequency

- 2.412 - 2.472 GHz
- 5.180 – 5.825 GHz

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 with OFDM
- 802.11ac: OFDM with BPSK, QPSK and 16/64/256-QAM

Media Access Protocol

- CSMA/CA with ACK

Antenna Gain

- 2.4 GHz: 3 x 2 dBi (max.) internal/5 GHz: 3 x 3 dBi (max.) internal

Wireless Output Power/Receiving Sensitivity

- 802.11a: 20 dBm (max.)/-65 dBm (typical) @ 54 Mbps
- 802.11b: 23 dBm (max.)/-83 dBm (typical) @ 11 Mbps
- 802.11g: 23 dBm (max.)/-65 dBm (typical) @ 54 Mbps
- 802.11n (2.4 GHz): 22 dBm (max.)/-61 dBm (typical) @ 450 Mbps
- 802.11n (5 GHz): 20 dBm (max.)/-61 dBm (typical) @ 450 Mbps
- 802.11ac: 20 dBm (max.)/-51 dBm (typical) @ 1300 Mbps

Wireless Channels

- 2.4 GHz: FCC: 1-11; ETSI: 1-13
- 5 GHz: FCC: 36, 40, 44, 48, 149, 153, 157, 161, 165; ETSI: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140

Power

- Input: 100 – 240 V AC, 50 - 60 Hz, 0.8 A
- Output: 12 V DC, 2 A external power adapter
- Consumption: 18 Watts max.

Operating Temperature

- 0 – 40 °C (32 – 104 °F)

Operating Humidity

- Max. 95% non-condensing

Certifications

- CE
- FCC

Dimensions

- 72 x 151 x 191 mm (2.8 x 6 x 7.5 in.)

Weight

- 408 g (14.4 oz.)

Warranty

- 3 year limited

Package Contents

- TEW-823DRU
- Multi-Language Quick Installation Guide
- CD-ROM (User's Guide)
- Network cable (1.5 m/5 ft.)
- Power adapter (12 V DC, 2 A)

*Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and cover-age will vary depending on interference, network traffic, building materials and other conditions. For maximum performance of up to 1.3 Gbps use with a 1.3 Gbps 802.11ac wireless adapter.

