TRENDNET ®

WIRELESS
AC1750
DUALBAND

AC1750 Dual Band Wireless Router
TEW-812DRU (v1.0R)

TRENDnet's AC1750 Dual Band Wireless Router, model TEW-812DRU, produces the ultimate wireless experience with gigabit wireless speeds. Manage two wireless networks—the 1300 Mbps Wireless AC band for the fastest wireless available and the 450 Mbps Wireless N band to connect common wireless devices. The TEW-812DRU can easily handle the demands of multiple HD streams in a busy connected home.

Plug in a USB flash or NAS drive to share HD videos and music across the network. Gigabit ports on the back of the router maintain high speed wired connections. Create a secure isolated guest network for guest internet access. Wi-Fi Protected Setup (WPS) connects other WPS supported wireless adapters at the touch of a button. Manage access to websites and file types with advanced access controls.

Gigabit Wireless: Next generation Gigabit Wireless AC

Simultaneous Dual Band: Gigabit Wireless AC band + Wireless N band for every day devices

One Touch Connection: Connect to the router at the touch of the Wi-Fi Protected Setup (WPS) button

Guest Network Access: Create an isolated network for guest internet access

USB Share Port: Plug in a USB flash or NAS drive to share HD videos and music

Parental Controls: Control access to specific websites or types of content

Gigabit Wired: Gigabit Ethernet port maintains high performance network connections

PRODUCT OVERVIEW

- 1750 Mbps total wireless: 1300 Mbps AC + 450 Mbps N bands
- Share music and videos with the USB share port
- Create an isolated guest network
- One touch network connection with the WPS button
- All Gigabit wired ports
- High power amplifiers extend wireless coverage

FEATURES

- 4 x 10/100/1000 Mbps Auto-MDIX LAN ports
- 1 x 10/100/1000 Mbps WAN port (Internet)
- 1 x USB 2.0 port for USB share (storage and printing***)
- 1 x Wi-Fi Protected Setup (WPS) button
- On / off power switch (EU version)
- Simultaneously transmit both 2.4 GHz and 5 GHz wireless networks
- Compliant with the latest draft 802.11ac wireless technology*
- Backwards compatible with IEEE 802.11n/b/g/a wireless standards
- High-speed data rates of up to 1.3 Gbps with 802.11ac* and 450 Mbps with 802.11n on both 2.4 GHz and 5 GHz band**
- IPv6 (Internet Protocol v6) support
- FTP and Samba USB storage support
- Share USB peripheral devices over the network including; flash drives, external hard drives and printers***
- Printer Control Center utility supports Windows 8 (32/64-bit), 7 (32/64-bit), Vista (32/64-bit), Windows XP (32/64-bit), and Mac OS X 10.6/10.7/10.8 operating systems
- Compatible with most popular cable / DSL Internet Service Providers using Dynamic / Static IP, PPPoE, L2TP, and PPTP connection
- Firewall protection with Network Address Translation (NAT)
- Wireless Distribution System (WDS) support for wireless network bridging
- Advance wireless security of up to WPA2-RADIUS
- Wi-Fi Multimedia (WMM) and configurable WAN Quality of Service (QoS) support
- Guest network support (3x per wireless band) with Internet access restriction
- Internet Access Control with MAC, URL, Service Type, and IP Range filtering
    - Internet Access Control Rule Scheduling: schedule access to websites, online video games, Internet cameras and more for specific times throughout the week
- One touch wireless connection using the WPS button
- Easy setup via Web browser using the latest versions of Internet Explorer, FireFox, Safari, and Chrome
- Virtual server and Application Level Gateway (ALG) services for special Internet applications
- Universal Plug and Play (UPnP) for auto discovery and support for device configuration of Internet applications
- 3-year limited warranty

* For maximum performance of up to 1.3 Gbps use with a 1.3 Gbps 802.11ac wireless adapter

** 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

*** Printer Control Center utility installation required for each computer in order to access the printer

SPECIFICATIONS

HARDWARE	
Standards	• Wired: IEEE 802.3 (10Base-T), IEEE 802.3u (100Base-TX), IEEE 802.3ab (1000Base-T) • Wireless: IEEE 802.11ac (draft), IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, 802.11a
Internet Protocol	• IPv4 and IPv6
LAN	• 4 x 10/100/1000 Mbps Auto-MDIX
WAN	• 1 x 10/100/1000 Mbps Auto-MDIX
USB	• 1 x USB 2.0 Type-A (Storage / Printing)
WPS Button	• Wi-Fi Protected Setup (WPS) connects with other WPS compliant devices
Reset Button	• Reset unit back to factory default (press and hold for 10 seconds)
Network Protocols / Features	• IGMP v1/2/3 proxy and snooping , Static and dynamic routing, UPnP, DHCP, server, Dynamic DNS (No-IP.com and DynDNS.com), NTP, IPsec / PPTP / L2TP VPN pass through, IPv6
Quality of Service	• WMM and WAN (Configurable Upload / Download)
Control Center Utility OS Support	• Windows® 8.1, 8, 7, Vista, XP • Mac OS® 10.4-10.9
Internet Connection Type	• IPv6, Dynamic IP, Static (fixed) IP, PPPoE, PPTP, L2TP
Firewall	• NAT, SPI, DMZ host, virtual servers, MAC / IP filters and URL filter
Management / Monitoring	• Local / remote configuration, upgrade firmware, backup / restore configuration via web browser, internal system log, ping test tool
Supported Web Browser	• Internet Explorer 6.0 or above, Firefox 2.0 or above, Chrome, Opera, Safari
LED Indicator	• Power, LAN 1-4, WAN, 2.4 GHz Wireless, 5 GHz Wireless, WPS
Power Adapter	• Input: 100 ~ 240 V, 50~60 Hz, 0.8 A • Output: 12 V DC, 2 A external power adapter
Power Consumption	• 18 watts (max.)
Dimension (L x W x H)	• 48 x 155 x 180 mm (1.9 x 6.1 x 7.1 in)
Weight	• 395 g (14 oz)
Temperature	• Operation: 0°~ 40°C (32°F~ 104°F) • Storage: -20°~ 60°C (-4°F~140°F)
Humidity	• Max 90% (non-condensing)
Certifications	• CE, FCC

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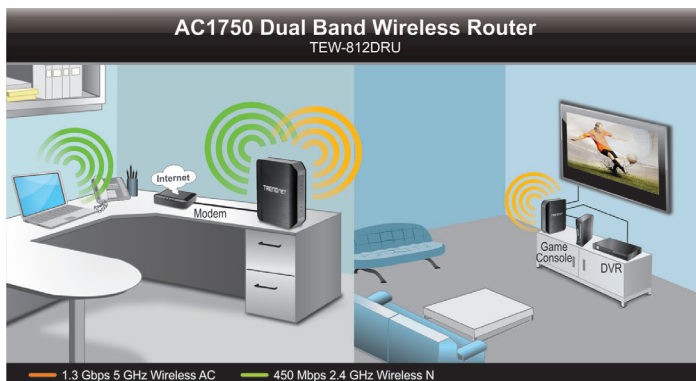
WIRELESS AC1750 DUALBAND

SPECIFICATIONS

WIRELESS	
Frequency	• 2.4 GHz: 2.412~2.462 (FCC) and 2.412~2.472 (ETSI) • 5 GHz: 5.15 ~ 5.250 / 5.725~5.850 GHz (FCC) 5.15 ~ 5.250 (ETSI)
Antenna	• 2.4 GHz: 3 x 2 dBi PIFA internal • 5 GHz: 3 x 2 dBi PIFA internal
Modulation	• CCK, DQPSK, DBPSK, OFDM, BPSK, QPSK, 16/64/256-QAM
Data Rate	• 802.11a: up to 54 Mbps • 802.11b: up to 11 Mbps • 802.11g: up to 54 Mbps • 802.11n: up to 450 Mbps (for both 2.4 & 5 GHz) • 802.11ac: up to 1.3 Gbps
Security	• 64/128-bit WEP, WPA/WPA2-PSK, WPA/WPA2-RADIUS
Guest network	• Up to 3 per wireless band
Access Control	• MAC Address Filter (Up to 24 entries)
Output Power	• 802.11a: FCC 22 dBm (typical), CE 18 dBm (typical) • 802.11b: 19 dBm (typical) (for 2.4 & 5 GHz) • 802.11g: 18 dBm (typical) (for 2.4 & 5 GHz) • 802.11n: 18 dBm (typical) (for 2.4 & 5 GHz) • 802.11ac: FCC 23 dBm (typical), CE 19 dBm (typical)
Receiving Sensitivity	• 802.11a: -68 dBm (typical) @ 54 Mbps • 802.11b: -84 dBm (typical) @ 11 Mbps • 802.11g: -72 dBm (typical) @ 54 Mbps • 802.11n: 18 dBm (typical) @ 300 Mbps • 802.11an:-68 dBm (typical) @ 450 Mbps (for 2.4 & 5 GHz) • 802.11ac: -55 dBm (typical) @ 1.3 Gbps
Channels	• 2.4 GHz: 1~11 (FCC), 1~13 (ETSI) • 5 GHz: 36, 40, 44, 48, 149, 153, 157, 161 and 165 (FCC), 36, 40, 44, 48 (ETSI)

NETWORKING SOLUTIONS

AC1750 Dual Band Wireless Router
TEW-812DRU

— 1.3 Gbps 5 GHz Wireless AC   — 450 Mbps 2.4 GHz Wireless N

PACKAGE CONTENTS

TEW-812DRU

Multi-Language Quick Installation Guide

CD-ROM (Utility and User's Guide)

1 x Network cable (1.5 m / 5 ft)

Power adapter (12 V, 2A)

RELATED PRODUCTS

TEW-805UB	AC1200 Dual Band Wireless USB Adapter
TEW-684UB	N900 Dual Band Wireless USB Adapter
TEW-692GR	N900 Dual Band Wireless Router

CONTACT INFORMATION

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