AC750 Wireless VDSL2/ADSL2+ Modem Router

TEW-816DRM (v1.0R)

- Combination high performance modem and wireless router
- Compatible with VDSL2/ADSL2+ ISP networks
- VDSL2: downstream throughput of up to 200 Mbps
- Wireless AC750: 433 Mbps AC + 300 Mbps N bands
- Pre-encrypted wireless for your convenience
- Two USB and four Ethernet ports

TRENDnet's AC750 Wireless VDSL2/ADSL2+ Modem Router, model TEW-816DRM, offers a combination high performance modem for internet access and a powerful wireless AC750 router. The built-in modem supports the latest ADSL2+ and VDSL2 standards for downstream speeds of up to 200 Mbps*. Wireless AC750 produces concurrent high speed 433 Mbps Wireless AC and 300 Mbps Wireless N networks. Use the two USB and four Ethernet ports to share content and devices across the network.

High Speed Internet

The built-in extreme performance modem supports internet speeds to your home, from your ISP, of up to 200 Mbps!

WiFi for All

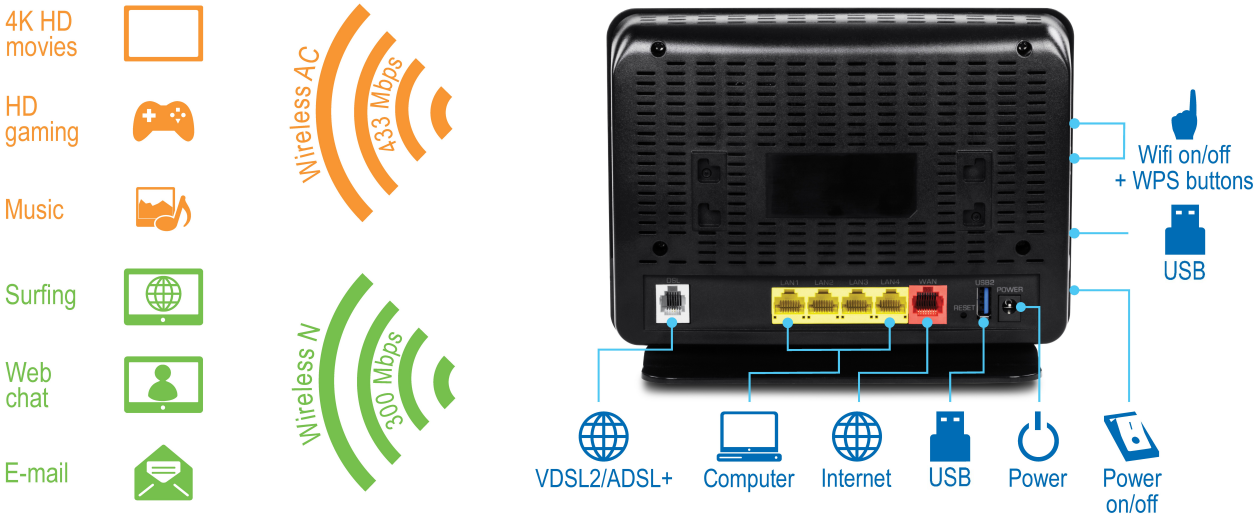
Connect all of your WiFi AC and N devices to the concurrent 433 Mbps WiFi AC and 300 Mbps WiFi N networks.

USB Share Ports

Plug in USB flash or storage drives to the two USB ports to share content across your network.

	AC750	AC1200	AC1750
Speed*	Up to 433 + 300 Mbps	Up to 867 + 300 Mbps	Up to 1300 + 450 Mbps
Easy Installation	✔	✔	✔
Pre-Encrypted	✔	✔	✔
Home Coverage* *	✔	✔	✔
HD Streaming	✔	✔	✔
USB Share Ports	✔	✔	✔
Gigabit Wired		✔	✔

Networking Solution



Easy Setup
Get up and running quickly with the intuitive guided setup

VDSL Internet Service
Compatible with VDSL2 internet service provider networks (Profile 8a, 8b, 8c, 8d, 12a, 12b, 17a, and 30a support) for downstream throughput of up to 200 Mbps*

ADSL Internet Service
Compatible with ADSL 2/2+ internet service provider networks (ADSL 2/2+ and Annex A, B, I, J, L, and M support)*

Wireless AC750
Concurrent high speed 433 Mbps Wireless AC + 300 Mbps Wireless N bands

Pre-Encrypted Wireless
For your convenience the wireless network arrives pre-encrypted with its own unique password

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

Ethernet Ports
Four Ethernet ports to connect wired devices

USB Share Ports
Plug in flash or storage drives to the two high speed USB ports to share content across the network

Parental Controls
Control access to specific websites and manage which devices can access the router

Remote Management
Remote management and troubleshooting support with TR-069

3G WAN Backup
3G WAN backup support

IPv6
IPv6 network support

On/Off Power Button
Convenient on/off power button

Specifications

VDSL/ADSL Line Interface
- ADSL: ANSI T1.413 Issue2, G.992.1 (G.dmt, Annex A, and Annex B), G.992.2 (G.lite)
- ADSL2: G.992.3 (G.bis/ADSL2)
- ADSL2+: G.992.5 (Annex A, B, I, J, M, and L)
- ITU G.994.1 (G.hs)
- ITU-T: G.993.2 VDSL2: 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a, profile G.vector
- ATM and PTM
- G.INP

Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (up to 300 Mbps)
- IEEE 802.11ac (up to 433 Mbps)

Hardware Interface
- 4 x 10/100 Mbps LAN ports
- 1 x Gigabit Mbps WAN port
- 1 x RJ-11 WAN port
- 2 x USB 2.0 port
- WPS/Wireless 2.4 GHz on/off button
- WPS/Wireless 5 GHz on/off button
- Power on/off button
- Reset button
- LED indicators

Special Features
- TR-069 remote management support
- Pre-encrypted wireless network
- Port mapping
- 3G WAN backup
- IPv6
- Wireless WDS support
- SAMBA server
- Dyn DNS support for: DynDNS.org and NO-IP.com
- Diagnostics: DSL test, Traceroute test, and Ping test

Access Control
- Wireless encryption: WEP, WPA/WPA2-PSK, WPA/WPA2-RADIUS
- Firewall: NAT, ALG, Port Trigger, SPI, Virtual Server, Special Applications, DMZ Host, PPTP/L2TP/IPsec VPN Passthrough, Multicast Passthrough, IGMP, MLD, allow/deny ping request from internet
- SNMP v1 and v2c
- Guest Networks: Create up to 3 guest networks per band
- Parental (Access) Controls: MAC, URL, IP Filter
- DoS protection
- Packet filter

Quality of Service
- DCSP
- 802.1p

Internet Connection Types
- Dynamic IP (DHCP)
- Static IP (Fixed)
- ATM/PTM
- PPPoE (Dynamic IP/Static IP)
- PPPoA (Dynamic IP/Static IP)
- IPoA
- MAC Encapsulation Routing (IPoEoA/MER)
- Bridge (RFC-1483)

Management/Monitoring
- Local/remote web based management
- Remote management (FTP, HTTP, ICMP, SNMP, SSH, Telnet, TFTP)
- TR-069 remote management
- Upgrade firmware
- Backup/restore configuration
- Logging – internal/remote
- Reboot
- Restore to factory defaults
- Ping test
- Traceroute

Routing
- Static
- Dynamic (RIP v1/2)

Frequency
- 5 GHz: FCC 5.180 – 5.240 + 5.745 – 5.825; ETSI: 5.180 – 5.240 GHz
- 2.4 GHz: FCC 2.412 – 2.472; ETSI: 2.412 – 2.462 GHz

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

Antenna Gain
- 5 GHz: 3 dBi (max.) internal
- 2.4 GHz: 2 dBi (max.) internal

Wireless Output Power/Receiving Sensitivity
- 802.11a: FCC: 20 dBm, CE: 22 dBm (max.)/-73 dBm (typical) @ 54 Mbps
- 802.11b: FCC: 24 dBm, CE: 13 dBm (max.)/-84 dBm (typical) @ 11 Mbps
- 802.11g: FCC: 22 dBm, CE: 14 dBm (max.)/-70 dBm (typical) @ 54 Mbps
- 802.11n (2.4 GHz): FCC: 22 dBm, CE: 14 dBm (max.)/-66 dBm (typical) @ 300 Mbps
- 802.11n (5 GHz): FCC: 20 dBm, CE: 22 dBm (max.)/-66 dBm (typical) @ 300 Mbps
- 802.11ac: FCC: 18 dBm, CE: 21 dBm (max.)/-56 dBm (typical) @ 433 Mbps

Wireless Channel
- 5 GHz: FCC: 36, 40, 44, 48, 149, 159, 157, 161, and 165; CE: 36, 40, 44, 48
- 2.4 GHz: FCC: 1 – 11; CE: 1 - 13

Power
- Input: 100 – 240 V AC, 50 - 60 Hz, 0.5 A
- Output: 12 V DC, 1.5 A external power adapter
- Consumption: 14 Watts (max.)

Operating Temperature
- 0 – 40 °C (32 – 104 °F)

Operating Humidity
- Max. 95 % non-condensing

Certifications
- CE
- FCC

Dimensions
- 190 x 146 x 55 mm (7.5 x 5.7 x 2.2 in.)

Weight
- 323 g (11.4 oz.)

Warranty
- 3 year limited

Package Contents
- TEW-816DRM
- Quick Installation Guide
- CD-ROM (User's Guide)
- Network cable (1.5 m/5 ft.)
- RJ11 telephone cable (1 m/3 ft.)
- Power adapter (12 V DC, 1.5 A)

*Actual upstream and downstream throughput dependent on Internet Service Provider network.
**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.

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