AC3200 Tri Band Wireless Router

TEW-828DRU (v1.0R)

- Three concurrent WiFi bands maximize device networking speeds
- AC3200: 1300 Mbps AC1 + 1300 Mbps AC2 + 600 Mbps N bands
- Smart Connect automatically groups slower and faster AC devices to separate WiFi AC bands
- Pre-encrypted WiFi for your convenience
- All Gigabit wired ports
- SuperSpeed USB 3.0 and USB 2.0 share ports
- Extreme performance 1 GHz dual core processor
- Create isolated guest networks
- Compatible with DD-WRT Open Source Firmware**

TRENDnet's AC3200 extreme performance Tri Band Wireless Router, model TEW-828DRU, produces three concurrent wireless networks—two separate 1300 Mbps Wireless AC networks and a 600 Mbps Wireless N network. Smart Connect technology automatically groups slower and faster AC devices to separate WiFi AC bands. High performance Gigabit ports, a 1 GHz dual core processor, six high gain antennas, high power amplifiers, and a SuperSpeed USB 3.0 share port deliver extraordinary networking speed and range.
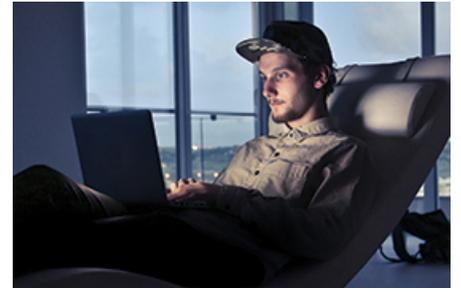
TRENDnet®

For Busy Homes
Three concurrent extreme WiFi networks and all Gigabit ports seamlessly handle the explosion of connected home devices and high bandwidth streams such as 4K video.

Smart Connect Technology
Smart Connect automatically manages both 1.3 Gbps WiFi AC bands by grouping slower devices on one band and faster devices on the highest performing band.

Network Protection Tools
TRENDnet includes tools to help protect your home network including parental controls, guest networks isolated from your devices/content, and pre-encrypted WiFi.

	AC1200	AC1900	AC3200
Speed	Up to 867 + 300 Mbps	Up to 1300 + 600 Mbps	Up to 1300 + 1300 + 600 Mbps
Easy setup	✔	✔	✔
Pre-encrypted WiFi	✔	✔	✔
Wireless amplifiers	✔	✔	✔
Multi-HD streaming	✔	✔	✔
USB 3.0 share port		✔	✔
Gigabit WiFi		✔	✔
Three simultaneous wireless bands			✔
Ultra-performance 1 GHz processor			✔

Networking Solution

4K HD movies

HD gaming

Music

Surfing

E-mail

Wireless AC 1 — 1300 Mbps
Wireless AC 2 — 1300 Mbps
Wireless N — 600 Mbps

LED indicators   USB 3.0/2.0   WPS   Gigabit   Gigabit   On/off switch   Power

TRENDnet®

Easy Setup
Get up and running in minutes with the intuitive guided setup

Simultaneous AC3200 Tri Band
Three concurrent WiFi bands maximize device networking speeds: two separate extreme performance 1300 Mbps Wireless AC networks and a 600 Mbps Wireless N network

Smart Connect Technology
Smart Connect technology virtually combines the two separate WiFi AC bands, so that only one WiFi AC network is visible, while managing each band individually. Slower and faster WiFi AC devices are grouped together and automatically assigned to the two separate WiFi AC bands, thereby optimizing networking speeds

Pre-Encrypted Wireless
For your convenience the AC3200 router's WiFi bands are pre-encrypted with their own unique passwords

Wireless Coverage
High performance amplifiers and six high gain antennas maximize wireless coverage

Gigabit Ports
Gigabit ports support high performance wired connections

USB 3.0/2.0 Share Ports
Plug in a USB 3.0 flash or storage drive into the SuperSpeed USB 3.0 or the USB 2.0 share port

Guest Network
Create an isolated network for guest internet access only

Parental Controls
Control access to specific websites

One Touch Connection
Connect to the AC3200 router at the touch of the Wi-Fi Protected Setup (WPS) button

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

1 GHz Processor
Extreme performance 1 GHz dual core processor optimizes networking throughput

VPN Support
Remote access to the router with OpenVPN support

DD-WRT
TRENDnet's TEW-828DRU AC3200 router is now compatible with DD-WRT open source firmware

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 (2.4 GHz 600 Mbps TurboQAM™*, 5 GHz up to 450 Mbps)
- IEEE 802.11ac (Band 1 and Band 2 up to 1300 Mbps)

Hardware Interface
- 4 x Gigabit LAN ports
- 1 x Gigabit WAN port
- 1 x USB 3.0 (Storage FTP, Samba)
- 1 x USB 2.0 (Storage FTP, Samba)
- Power switch
- WPS button
- Reset button
- LED indicators

Special Features
- Smart Connect automatically groups slower and faster AC devices to separate WiFi AC bands
- 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 and no-ip.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 VPN Passthrough, Telnet, POP3/SMTP/TFTP/FTP/RTP/SIP Passthrough

- Parental (Access) Controls: MAC, URL, IP Filter
- OpenVPN support

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)
- IPv6 (Static, Auto-configuration (SLAAC/DHCPv6), Link-Local, 6to4, 6rd)

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

Routing
- Static

Frequency
- 2.412 - 2.462 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, 256-QAM with OFDM
- 802.11ac: OFDM with BPSK, QPSK and 16/64/256-QAM

Media Access Protocol
- CSMA/CA with ACK

Antenna Gain
- 2.4 GHz: 3 x 4.6 dBi (max.) external/5 GHz: 6 x 5 dBi (max.) external

Wireless Output Power
- 802.11a: 19 dBm (max.) @ 54 Mbps

- 802.11b: 26 dBm (max.) @ 11 Mbps
- 802.11g: 20 dBm (max.) @ 54 Mbps
- 802.11n (2.4 GHz): 20 dBm (max.) @ 600 Mbps
- 802.11n (5 GHz): 19 dBm (max.) @ 450 Mbps
- 802.11ac: 19 dBm (max.) @ 1300 Mbps

Receiving Sensitivity
- 802.11a: -72 dBm (typical) @ 54 Mbps
- 802.11b: -84 dBm (typical) @ 11 Mbps
- 802.11g: -75 dBm (typical) @ 54 Mbps
- 802.11n (2.4 GHz): -68 dBm (typical) @ 600 Mbps
- 802.11n (5 GHz): -68 dBm (typical) @ 450 Mbps
- 802.11ac: -55 dBm (typical) @ 1300 Mbps

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

Power
- Input: 100 – 240 V AC, 50 - 60 Hz
- Output: 12 V DC, 3.5 A external power adapter
- Consumption: 37.5 Watts max.

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

Operating Humidity
- Max. 85% non-condensing

Certifications
- FCC

Dimensions
- 240 x 170 x 45 mm (9.5 x 6.7 x 1.8 in)

Weight
- 581 g (20.5 oz.)

Warranty
- 3 year limited

Package Contents
- TEW-828DRU
- Quick Installation Guide
- CD-ROM (User's Guide)
- Network cable (1.5 m/5 ft.)
- Power adapter (12 V DC, 3.5 A)

*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 1.3 Gbps, use with a 1.3 Gbps 802.11ac wireless adapter. 802.11n 2.4 GHz TurboQAM™ speed requires clients with TurboQAM™ support.

**The provided open source firmware has no affiliation with, nor was it produced by TRENDnet. Using this firmware requires advanced knowledge and experience with OpenSource code. TRENDnet does not provide support for this firmware. Use of this firmware voids the product warranty. This firmware may damage your product, use at your own risk