# AC1750 Dual Band PoE Access Point

TEW-825DAP (v1.0R)

- High performance AC1750 PoE+ access point
- AC1750: concurrent 1300 Mbps WiFi AC + 450 Mbps WiFi N bands
- Access Point, Client, WDS AP, WDS Bridge, WDS Station, and Repeater modes
- Gigabit PoE+ LAN port
- Off-white low profile housing
- Ceiling / wall mounting plate

Equip your business with a manageable and cost-effective AC1750 wireless network with TRENDnet's AC1750 Dual Band PoE+ Access Point, model TEW-825DAP. Broadcast concurrent 1300 Mbps WiFi AC and 450 Mbps WiFi N networks. Relieve congestion and overcrowding on the 2.4 GHz band by employing band steer technology. Power the access point with the included AC adapter, or connect via PoE+ for installation flexibility. The low-profile design blends into most environments and includes a convenient ceiling / wall mounting plate.

Access Point Flexibility
Concurrent 1300 Mbps WiFi AC and 450 Mbps WiFi N combined with AP, Client, WDS, and Repeater modes support multiple applications.
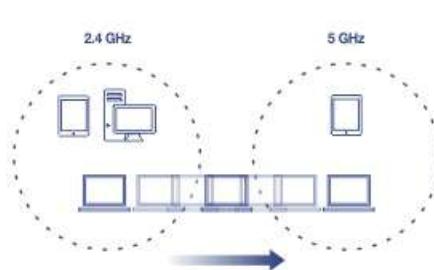
Band Steering
Band steering alleviates network congestion by automatically directing wireless devices from the 2.4 GHz band to the 5 GHz band.
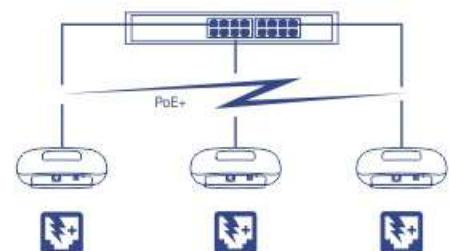
PoE+
Saves installation time and costs with Gigabit PoE+ support.

Networking Solution

1. Mounting plate
2. LED indicators
3. PoE+ Gigabit LAN port
4. Power port (optional non-PoE installation)
5. Reset button
6. Low profile off white housing

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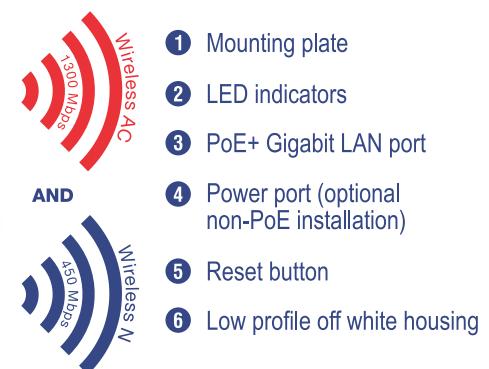
Multi-Language
Multi-Language Interface: English, Spanish, French, German, and Russian

Power over Ethernet (PoE+)
Saves installation time and costs with Gigabit PoE support

Concurrent Dual Band
AC1750
AC1750: concurrent 1300 Mbps WiFi AC + 450 Mbps WiFi N bands

Multiple AP Modes
Supports Access Point (AP), Client, WDS+AP, WDS Bridge, WDS Station, and Repeater modes

AP Utility
The included Windows-based utility reduces WiFi configuration and setup time

Gigabit Port
Gigabit PoE+ LAN port maintains high performance connections to the wired network

Wireless Coverage
Extended wireless coverage with MIMO antenna technology

Encrypted Wireless
Supports wireless encryption up to WPA2

Band Steering
Band steering alleviates network congestion by automatically directing wireless devices from the 2.4 GHz band to the 5 GHz band

WiFi Traffic Shaping
Manage traffic allocation per SSID for each band separately

Multiple SSIDs
Create up to 8 SSIDs per band (16 total)

IPv6
IPv6 network support

Housing Design
Off-white low-profile design

LED Control
Reduce product visibility by disabling LED indicators

Mounting Plate
Included ceiling / wall mounting plate for flexible installation

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Specifications

Standards
- IEEE 802.1Q
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3at
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (up to 450 Mbps)
- IEEE 802.11ac (up to 1300 Mbps)

Hardware Interface
- 1 x PoE+ Gigabit LAN port
- Power port (optional non-PoE installation)
- Reset button
- LED indicators
- Mounting plate

Special Features
- IP30 rated housing (with mounting plate installed)
- Concurrent Dual band
- Band Steering
- WiFi traffic shaping
- 802.1Q VLAN assignment per SSID
- IPv6 support (Link-Local, Static IPv6, Auto-Configuration (SLAAC / DHCPv6)
- Multi-Language interface, English, French, Spanish, German, Russian
- LEDs on / off
- Captive Portal (Coovachilli)

Operation Modes
- Access Point
- Client
- WDS AP
- WDS Bridge
- WDS Station
- Repeater

Management / Monitoring
- Web based management
- Software Utility
- SNMP v1 / v3
- STP
- Event logging
- Ping test
- Traceroute
- CLI

Utility OS Compatibility
- Windows® 10, 8.1, 8, 7, Vista, XP

Access Control
- Wireless encryption: WEP, WPA / WPA2-PSK, WPA / WPA2-RADIUS
- MAC filter
- Maximum client limit

QoS
- WMM
- Traffic shaping per SSID

SSID
- Up to 8 SSIDs per wireless band (16 total)

Frequency
- 2.4 GHz: 2.412 - 2.472 GHz
- 5 GHz: 5.180 – 5.825 GHz

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

Modulation
- DBPSK / DQPSK / CCK for DSSS technique
- BPSK / QPSK / 16-QAM / 64-QAM / 256-QAM for OFDM technique

Antenna Gain
- 2.4 GHz: 3 x 4 dBi
- 5 GHz: 3 x 4 dBi

Wireless Output Power / Receiving Sensitivity
- 802.11a: FCC: 23 dBm, ETSI: 21 dBm (Max.) / -65 dBm (typical) @ 54 Mbps
- 802.11b: FCC: 22 dBm (Max.), CE: 8 dBm (Max) / -83 dBm (typical) @ 11 Mbps
- 802.11g: 17 dBm (Max.), CE: 10 dBm (Max.) / -65 dBm (typical) @ 54 Mbps
- 802.11n: FCC: 17 dBm (Max.), CE: 11 dBm (Max.) / -61 dBm (typical) @ 450 Mbps 2.4 GHz
- 802.11n: FCC: 23 dBm, CE: 21 dBm (Max.) / -61 dBm (typical) @ 450 Mbps 5 GHz
- 802.11ac: FCC: 23 dBm, CE: 21 dBm (Max.) / -54 dBm (typical) @ 1300 Mbps

Power
- Input: 100 – 240 V AC, 50 - 60 Hz / Output: 12 V DC, 1.5 A external power adapter (non-PoE installation)
- Consumption: 12.5 Watts (max.)

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

Operating Humidity
- Max. 95 % non-condensing

Certifications
- CE
- FCC

Dimensions
- 187 x 187 x 46 mm (7.3 x 7.3 x 1.8 in.)

Weight
- 416 g (14.7 oz.)

Warranty
- 3 year limited

Package Contents
- TEW-825DAP
- 1 x Network cable (1.5 m / 5 ft.)
- CD-ROM (Utility and User's Guide)
- Quick Installation Guide
- Power adapter (12V DC, 1.5 A)
- Mounting plate

*Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depend-ing on interference, network traffic, building materials and other conditions. For maximum performance of up to 1300 Mbps use with a 1300 Mbps 802.11ac wireless adapter. For maximum performance of up to 450 Mbps, use with a 450 Mbps 802.11n wireless adapter.
**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.