# TRENDNET®

AC1200 Dual Band PoE Indoor Wireless Access Point

TEW-821DAP (v2.0R)

- High performance AC1200 PoE access point
- Wireless AC wave 2 MU-MIMO technology boosts performance in a busy home
- AC1200: concurrent 867Mbps WiFi AC + 300Mbps WiFi N bands
- Access Point, Client Bridge, WDS AP, WDS Bridge, WDS Station, and Repeater modes
- Gigabit PoE LAN port
- Low-profile housing blends into most environments
- Includes wall / ceiling mounting plate with cable guard
- Captive portal for hotspot applications
- Compatible with TRENDnet's TEW-WLC100 and TEW-WLC100P wireless controllers

TRENDnet's high performance AC1200 Dual Band Indoor Wireless PoE Access Point, model TEW-821DAP, supports Access Point (AP), Client Bridge, Wireless Distribution System Access Point (WDS AP), WDS Bridge, WDS Station, and Repeater modes. This wireless indoor access point generates concurrent 867Mbps WiFi AC and 300Mbps WiFi N networks. MU-MIMO technology processes multiple data streams simultaneously, increasing real-time WiFi performance when multiple devices access the network. It features advanced access control, QoS, traffic management, band steering, and captive portal support. The low-profile housing design blends into most environments and includes a convenient wall / ceiling mounting plate with cable guard.

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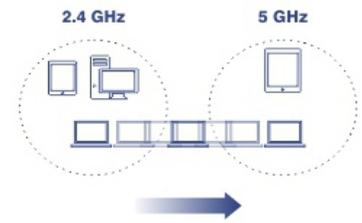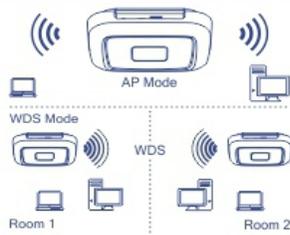
Access Point Flexibility
Concurrent 867Mbps WiFi AC and 300Mbps WiFi N combined with AP, Client, WDS, and Repeater modes support multiple applications.
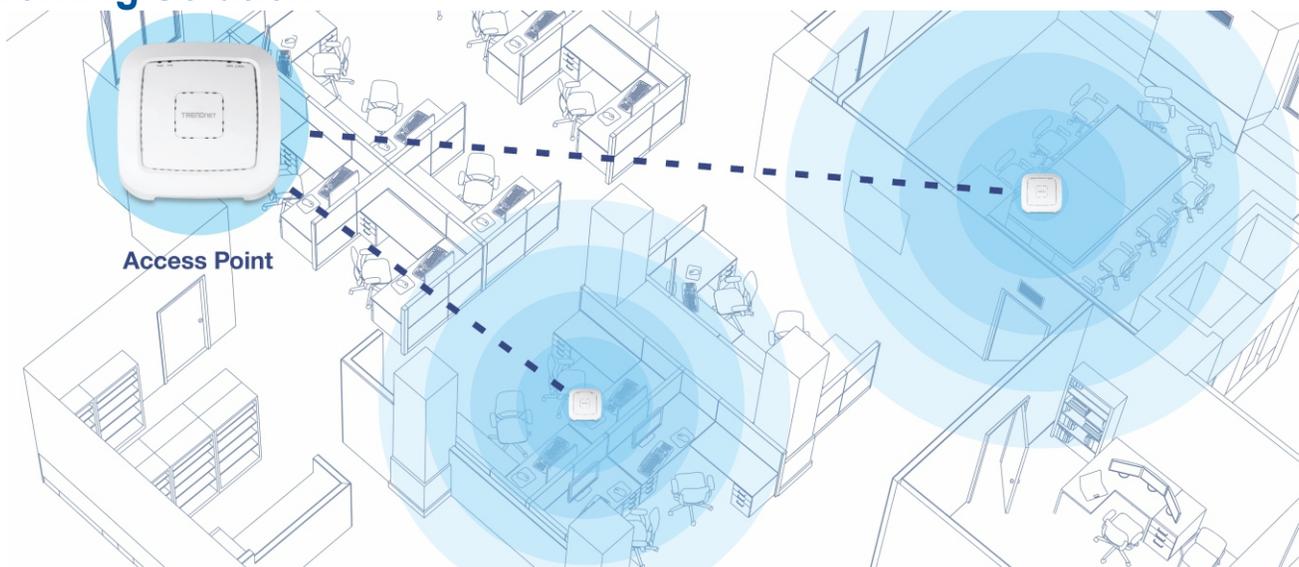
Built For Busy Homes
MU-MIMO technology processes multiple data streams simultaneously, increasing real-time WiFi performance when multiple devices access the network.

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

Networking Solution

Access Point

Concurrent Dual Band
AC1200: concurrent 867Mbps WiFi AC + 300Mbps WiFi N bands

Power over Ethernet (PoE)
Saves installation time and costs with gigabit PoE support (optional power port for non-PoE installations)

Access Point Modes
Supports Access Point (AP), Client, WDS AP, WDS Bridge, WDS Station, and Repeater modes for each WiFi band independently.

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

Wireless Coverage
Extended wireless coverage with MU-MIMO antenna technology

MU-MIMO Performance
MU-MIMO technology enables the access point to process multiple data streams simultaneously, and increases real-time WiFi performance

Encrypted Wireless
Support for wireless encryption of up to WPA2

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

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

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

Low Profile
Low-profile housing design blends into most environments

LED Control
Reduce product visibility by turning off LED indicators

Mounting Plate
Wall / Ceiling mounting plate with cable guard

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Specifications

Standards	• IEEE 802.3 • IEEE 802.3u • IEEE 802.3x • IEEE 802.3ab • IEEE 802.3af • IEEE 802.1Q • IEEE 802.11a • IEEE 802.11b • IEEE 802.11g • IEEE 802.11n (up to 300 Mbps) • IEEE 802.11ac Wave 2 (up to 867 Mbps)
Hardware Interface	• 1 x PoE Gigabit LAN port • Power port (optional non-PoE installation) • LED indicators • Mounting plate and cable guard • On/Off power button • Reset button
Features	• 802.11ac MU-MIMO Wave 2 support • IP30 rated housing (with mounting plate and cable guard 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 (external Coovachilli server authentication) • Internal Captive Portal (Local user account authentication and customizable portal page) • 802.11k intelligent radio resource management • RSSI Threshold (client signal strength and connectivity control) • Airtime Fairness
Operation Modes	• Access Point • Client Bridge • WDS AP • WDS Bridge • WDS Station • Repeater
Management/ Monitoring	• Web based management • AP software utility • SNMP v1/v3 • STP • Event logging • Ping test • Traceroute • CLI
Access Control	• Wireless encryption: WEP, WPA/WPA2-PSK, WPA/WPA2-RADIUS • MAC filter • Maximum client limit
QoS	• WMM • Bandwidth control per SSID or client

SSID	• Up to 8 SSIDs per wireless band (16 total)
Frequency	• 2.4GHz: 2.412 – 2.472GHz • 5GHz: 5.180 – 5.8525GHz
Wireless Channels	• 2.4GHz: FCC: 1–11, ETSI: 1 – 13 • 5GHz: 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	• 2.4GHz: 2 x 3 dBi internal • 5GHz: 2 x 4 dBi internal
Wireless Output Power	• 802.11a: FCC: 19 dBm (max.) / CE: 19 dBm (max.) / IC: 19 dBm (max.) • 802.11b: FCC: 23 dBm (max.) / CE: 10 dBm (max.) / IC: 23 dBm (max.) • 802.11g: FCC: 19 dBm (max.) / CE: 12 dBm (max.) / IC: 19 dBm (max.) • 802.11n (2.4 GHz): FCC: 19 dBm (max.) / CE: 12 dBm (max.) / IC: 19 dBm (max.) • 802.11n (5 GHz): FCC: 19 dBm (max.) / CE: 19 dBm (max.) / IC: 19 dBm (max.) • 802.11ac: FCC: 18 dBm (max.) / CE: 18 dBm (max.) / IC: 18 dBm (max.)
Receiving Sensitivity	• 802.11a: -65 dBm (typical) @ 54 Mbps • 802.11b: -83 dBm (typical) @ 11 Mbps • 802.11g: -65 dBm (typical) @ 54 Mbps • 802.11n (2.4 GHz): -64 dBm (typical) @ 300 Mbps • 802.11n (5 GHz): -61 dBm (typical) @ 300 Mbps • 802.11ac: -51 dBm (typical) @ 867 Mbps
Power	• IEEE 802.3af Type 1 PoE PD Class 3 • Input: 100 - 240V AC, 50/60Hz, Output: 12V DC, 1A external power adapter (optional) • Max. consumption: 8W
Operating Temperature	• 0° – 40° C (32° – 104° F)
Operating Humidity	• Max. 95% non-condensing
Certifications	• CE • FCC • IC
Dimensions	• 163 x 165 x 44mm (6.4 x 6.5 x 1.7 in.)
Weight	• 372g (13.1 oz.)
Warranty	• 3 year limited

PACKAGE CONTENTS

• TEW-821DAP
• Network cable (1.5m/5 ft.)
• Quick Installation Guide
• Power adapter (12V DC, 1A)
• Mounting plate and cable guard

*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 867Mbps use with an 867Mbps 802.11ac wireless adapter. For maximum performance of up to 300Mbps, use with a 300Mbps 802.11n wireless adapter. Multi-User MIMO (MU-MIMO) requires the use of multiple MU-MIMO enabled wireless adapters.
**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.

Updated: 8/16/2018