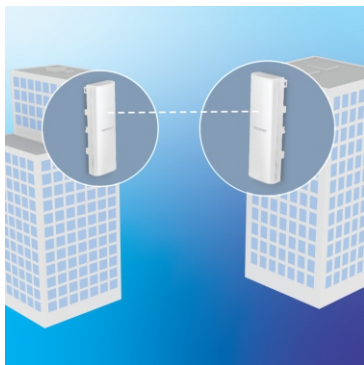# 14 dBi WiFi 6 AX1200 Outdoor Directional PoE Access Point
TEW-940APBO (v1.0R)

- 5GHz WiFi 6 AX1200 point-to-point bridge
- 1 x Gigabit PoE (in) port, and 1 x Gigabit port
- 14 dBi directional antenna
- Supports Access Point, Client Bridge, and Repeater modes
- IP55 outdoor weather rated housing
- Proprietary PoE power adapter included
- Remote cloud management with TRENDnet Hive™ (Additional fee applies)
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's 14 dBi WiFi 6 AX1200 Outdoor Directional PoE Access Point, model TEW-940APBO, is designed for point-to-point WiFi bridging applications. The 5GHz outdoor wireless access point supports wireless point-to-point installation scenarios with Access Point, Client Bridge, and Repeater modes. The IP55 rated housing is designed for outdoor environments, and includes wall and pole mounting hardware. Faster speeds are possible on this WiFi 6 access point with OFDMA and MU-MIMO technologies. MU-MIMO technology processes multiple data streams simultaneously, increasing real-time WiFi performance on the outdoor wireless access point when multiple devices access the network.

Easily manage and configure TRENDnet's 14 dBi WiFi 6 AX1200 Outdoor Directional PoE Access Point remotely by updating the access point to the latest firmware for access to TRENDnet Hive™. TRENDnet Hive is a network cloud manager that reduces management time and cost. This cloud managed access point requires no additional hardware, server, or personal cloud with TRENDnet's reliable cloud service

Point-to-Point Bridge

The outdoor wireless access point supports wireless AX1200 point-to-point networking (5GHz) with access point, client bridge, and repeater modes.
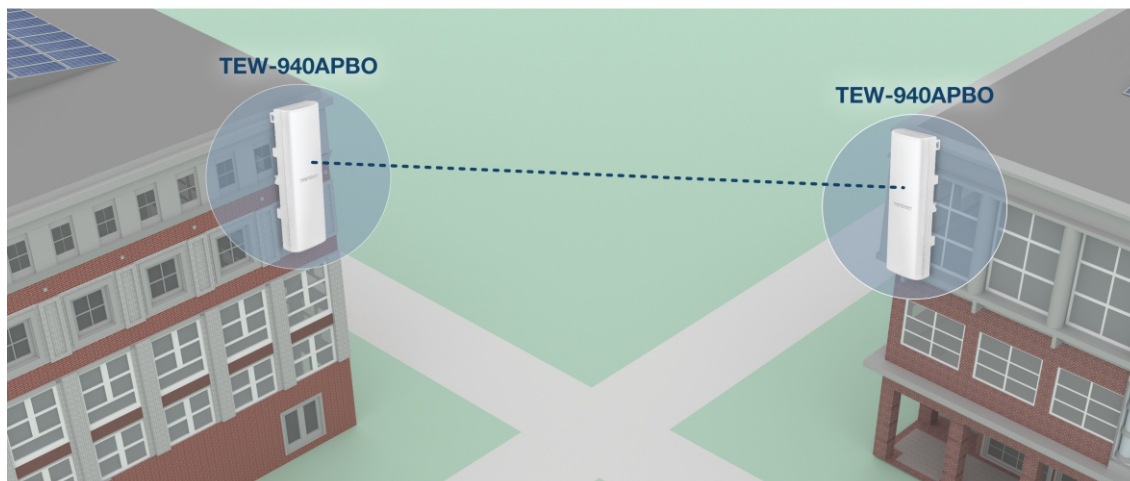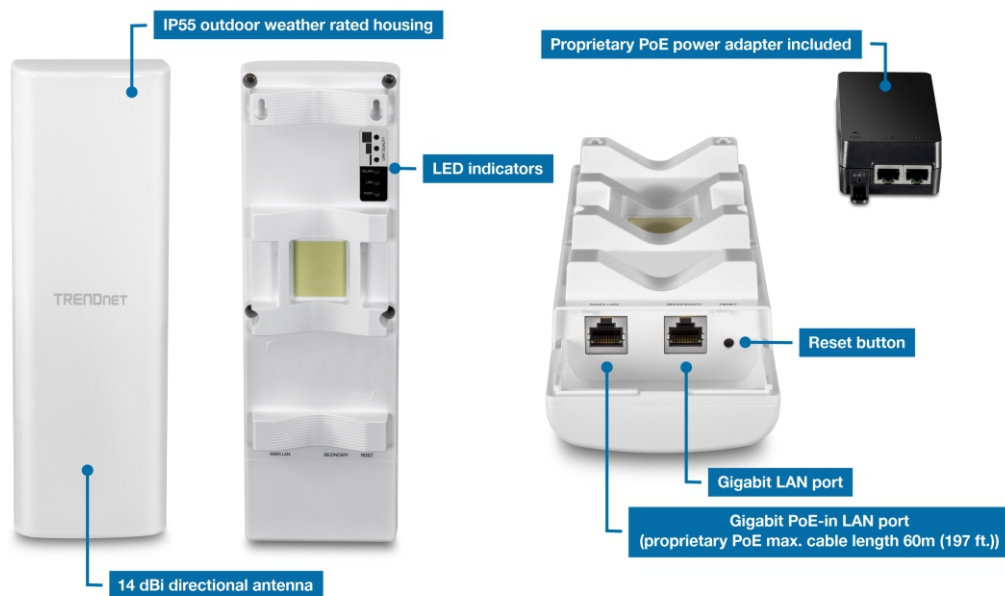
WiFi 6 AX1200

Supports WiFi 6 AX1200 (5GHz) to maximize point-to-point networking speeds and includes convenient wireless connection quality LEDs for ease of installation.

Outdoor Ready

Built for outdoor environments with an IP55 weather rating, and an operating temperature range of -20° – 60° C (-4° – 140° F).

NETWORKING SOLUTION

- IP55 outdoor weather rated housing
- Proprietary PoE power adapter included
- LED indicators
- Reset button
- Gigabit LAN port
- Gigabit PoE-in LAN port (proprietary PoE max. cable length 60m (197 ft.))
- 14 dBi directional antenna

TEW-940APBO

TEW-940APBO

FEATURES

Wireless Modes
Supports Access Point, Client Bridge, and Repeater modes

WiFi 6 AX1200 (5GHz)
Compliant with 802.11ax/n/ac 5GHz technology with data rates up to 1.2Gbps*

Outdoor Rated
Durable enclosure with an IP55 outdoor weather rating

Directional Antenna
14 dBi directional antenna

PoE Power Adapter
Proprietary PoE power adapter included

Encrypted Wireless
Support for wireless encryption of up to WPA3

Mounting Hardware
Pole and wall mount hardware included

LED Indicators
LEDs convey wireless connection quality for ease of installation

Hive Enabled
Remotely manage, configure, and diagnose this WiFi 6 access point via TRENDnet's cloud service (Additional fee applies)

SPECIFICATIONS

Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.1d
- IEEE 802.1Q
- IEEE 802.1X
- IEEE 802.11a
- IEEE 802.11k
- IEEE 802.11n (5GHz: up to 300Mbps)*
- IEEE 802.11ac (5GHz: up to 867Mbps)*
- IEEE 802.11ax (5GHz: up to 1201Mbps)*

Hardware Interface
- 1 x Gigabit PoE-in LAN port (proprietary PoE max. cable length 60m (197 ft.))
- 1 x Gigabit LAN port
- LED indicators
- Reset button

Certifications
- FCC

Dimensions
- 82 x 257 x 50mm (7.3 x 3.9 x 1.4 in.)

Weight
- 598g (21.09 oz.)

Access Control
- Wireless encryption: OWE (Opportunistic Wireless Encryption), WPA/WPA2/WPA3-RADIUS (Enterprise), WPA-PSK/WPA2-PSK/WPA3-SAE (Personal)
- MAC filter (max entries: 32)
- Maximum client limit
- Client isolation/separate stations

QoS
- WMM
- Bandwidth control per SSID

SSID
- Up to 8 SSIDs

Frequency
- 5.150GHz – 5.250GHz, 5.725GHz – 5.850GHz

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

Modulation
- BPSK/QPSK/16-QAM/64-QAM/256-QAM/1024-QAM for OFDM/OFDMA

MIMO Configuration
- 5GHz: 2x2:2
- 2.4GHz: N/A

Antenna Gain
- 14 dBi internal directional patch antenna

Distance
- Up to 1km**

Wireless Output Power
- 802.11a: 23 dBm (max.)
- 802.11n: 22 dBm (max.)
- 802.11ac: 22 dBm (max.)
- 802.11ax: 22 dBm (max.)

Receiving Sensitivity (per chain)
- 802.11a: -71 dBm (typical) @ 54Mbps
- 802.11n: -66 dBm (typical) @ 300Mbps
- 802.11ac: -55 dBm (typical) @ 867Mbps
- 802.11ax: -54 dBm (typical) @ 1201Mbps

Power
- Input: 100 – 240V AC, 50/60Hz, 0.8A
- Output: 54V DC, 0.6A proprietary/passive PoE injector
- Max. Consumption: 10.1W

Operating Temperature
- -20° – 60° C (-4° – 140° F)

Operating Humidity
- Max. 90% non-condensing

Operation Modes
- Access Point
- Client Bridge
- Repeater

Hive Cloud Management***
- Configure, monitor, and manage through the TRENDnet Hive Cloud Management Portal remotely via PC or Mac web browser
- Multi-device management
- Provisioning through scheduled batch or configuration updates for multiple switches
- Event/hardware network monitoring (CPU/memory utilization)
- Configure features such as IP address settings, WiFi settings, operation modes, and LED control through cloud manage-ment

Package Contents
- TEW-940APBO
- Quick Installation Guide
- Proprietary/Passive PoE injector (54V DC, 0.6A)
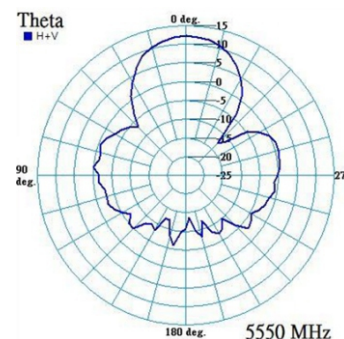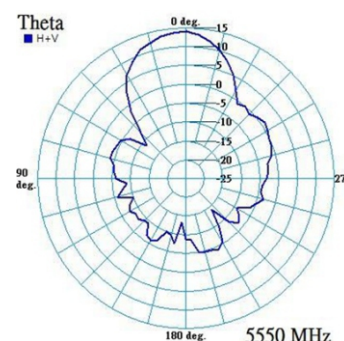- Mounting hardware

Warranty
- 3 year

Management/Monitoring
- Web based management (HTTP/HTTPS)
- Command Line Interface (SSH)
- SNMP v2c/v3
- Spanning Tree Protocol (STP)
- Event logging
- Ping test
- Traceroute
- Performance throughput test
- Schedule WiFi radio enable/disable
- Ping watchdog/gateway connection monitor
- Reboot & scheduled automatic reboot
- Channel utilization scan/AP detection

Features
- 802.11ax WiFi 6 support
- IP55 rated housing
- MU-MIMO
- Band steering
- Airtime fairness
- 802.1Q VLAN assignment per SSID
- IPv6 support
- LEDs on/off
- 802.11k intelligent radio resource management
- RSSI Threshold (client signal strength and connectivity control)
- LLDP
- Bonjour/UPnP

Antenna Pattern
- 5G Antenna 1

5550 MHz

- 5G Antenna 2

5550 MHz

Disclaimer:

*Effective wireless coverage may vary depending on the wireless device's output power, antenna gain, antenna alignment, receiving sensitivity, and radio interference. Additionally, environmental factors such as weather conditions, physical obstacles, and other considerations may affect performance. For optimal results, we recommended consulting a professional installer for site survey, safety precautions, and proper installation.

** The distance listed in the specification is based on internal wireless connectivity between two TEW-940APBO units with consideration to acceptable data transmission rates performance throughput. Actual achievable connectivity and performance throughput may vary based on environmental factors in the installed locations.

***Hive cloud management requires firmware 1.0.4.07 or above.