



## 5 dBi WiFi 6 AX1800 Outdoor PoE+ Omni-Directional Access Point

TEW-941APBO (v1.0R)

- Dual band WiFi 6 AX1800 point-to-point and point-to-multi-point bridge
- 2 x 5 dBi 2.4GHz omni-directional antennas
- 2 x 5 dBi 5GHz omni-directional antennas
- 1 x 2.5G PoE+ LAN port
- Supports Access Point, Client Bridge, and Repeater modes
- IP67 outdoor weather rated housing
- Supports IEEE 802.3at PoE+
- Remote cloud management available with TRENDnet Hive (Additional fee applies)
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's 5 dBi WiFi 6 AX1800 Outdoor PoE+ Omni-Directional Access Point, model TEW-941APBO, is designed for point-to-point and point-to-multi-point WiFi bridging applications. This WiFi 6 outdoor access point can be powered with an IEEE 802.3at PoE+ switch or injector. The WiFi 6 outdoor omnidirectional AP supports point-to-point and point-to-multi-point scenarios with Access Point, Client Bridge, and Repeater modes. The IP67 rated housing on this WiFi 6 outdoor access point is designed for outdoor environments, and conveniently includes wall and pole mounting hardware.

Easily manage and configure TRENDnet's 5 dBi WiFi 6 AX1800 Outdoor PoE+ Omni-Directional Access Point remotely with TRENDnet Hive. TRENDnet Hive is a remote network cloud manager that reduces management time and cost. No additional hardware, server, or personal cloud is required with this WiFi 6 access point and TRENDnet's reliable cloud service.



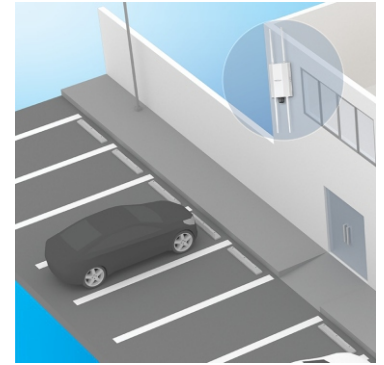
### Wireless Multi-Point Bridge

Use this dual band wireless AX1800 point-to-multi-point bridge to conveniently link two or more locations together with WiFi 6 AX1800 speeds and performance.



### AX1800 WiFi 6

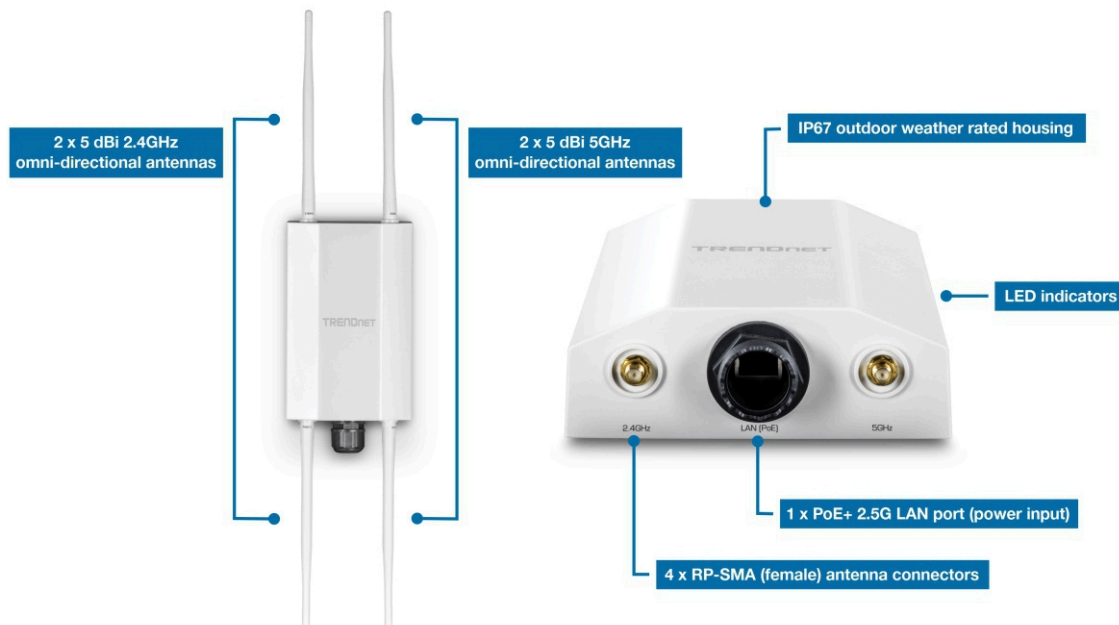
This WiFi 6 outdoor access point supports dual band WiFi 6 AX1800 to maximize point-to-point networking speeds and wireless client connectivity.



### Outdoor Ready

Built for outdoor installations with an IP67 outdoor protection rating and an operating temperature range of -22° – 60° C (-7.6° – 140° F).

## NETWORKING SOLUTION



## FEATURES



### Concurrent Dual Band

AX1800: Concurrent 1201Mbps (5GHz) + 573Mbps (2.4GHz) bands



### Wireless Modes

Supports Access Point, Client Bridge, and Repeater modes



### Outdoor Rated

The outdoor wireless 6 access point features a durable enclosure with an IP67 weather rating



### Omni-Directional Antenna

2 x 5 dBi 2.4GHz antennas, 2 x 5 dBi 5GHz antennas



### PoE+ Powered

Supports 2.5G 802.3at PoE+ power input



### Encrypted Wireless

Support for wireless encryption of up to WPA3



### Multiple SSID

Create up to eight dual band SSIDs with band steering capabilities



### Mounting Hardware

Pole and wall mount hardware are conveniently included with this WiFi 6 outdoor access point



### Hive Enabled (Optional)

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

## SPECIFICATIONS

### Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3at
- IEEE 802.3bz
- IEEE 802.1Q
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (5GHz: up to 300Mbps, 2.4GHz: up to 300Mbps)\*
- IEEE 802.11r\*
- IEEE 802.11v
- IEEE 802.11ac (5GHz: up to 867Mbps)\*
- IEEE 802.11ax (5GHz: up to 1201Mbps, 2.4GHz: up to 573Mbps)\*

### Hardware Interface

- 1 x PoE+ 2.5G LAN port (power input)
- 4 x RP-SMA (female) antenna connectors
- LED indicators

### 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, or through the mobile app
- Multi-device management
- Provisioning through scheduled batch firmware 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 management

### 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

### Power

- IEEE 802.3at Type 2 PoE+ PD Class 4
- Max. consumption: 25W

### Operating Temperature

- -22° – 60° C (-7.6° – 140° F)

### QoS

- WMM
- Bandwidth control per SSID

### SSID

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

### Frequency

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

### Wireless Channels

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

### Modulation

- DBPSK/DQPSK/CCK for DSSS technique
- BPSK/QPSK/16-QAM/64-QAM/256-QAM/1024-QAM for OFDM/OFDMA

### MIMO Configuration

- 5GHz: 2x2:2
- 2.4GHz: 2x2:2

### Antenna Gain

- 2.4GHz: 2 x 5 dBi external
- 5GHz: 2 x 5 dBi external

### Operating Humidity

- Max. 90% non-condensing

## Features

- 802.11ax WiFi 6 support
- IP67 rated housing
- MU-MIMO
- Airtime fairness
- Band steering
- 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

## Management/Monitoring

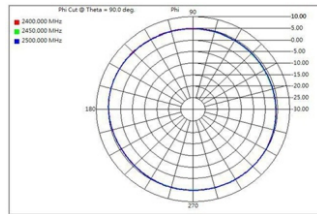
- Web based management (HTTP/HTTPS)
- Command Line Interface (SSH)
- SNMP v2c/v3
- Spanning Tree Protocol (STP)
- Event logging
- Ping test
- Traceroute
- Performance throughput test
- Schedule WiFi radio enable/disable
- Ping watchdog/gateway connection monitor
- Reboot & scheduled automatic reboot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

## Wireless Output Power

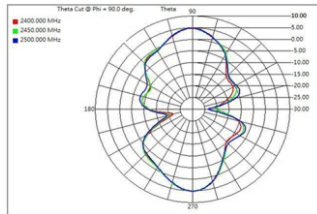
- 802.11a: 21 dBm (max.)
- 802.11b: 19 dBm (max.)
- 802.11g: 19 dBm (max.)
- 802.11n (2.4GHz): 19 dBm (max.)
- 802.11n (5GHz): 21 dBm (max.)
- 802.11ac: 21 dBm (max.)
- 802.11ax (2.4GHz): 19 dBm (max.)
- 802.11ax (5GHz): 21 dBm (max.)

## Antenna Pattern

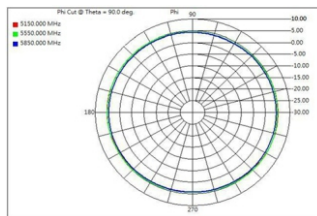
- 2.4GHz H-Plane



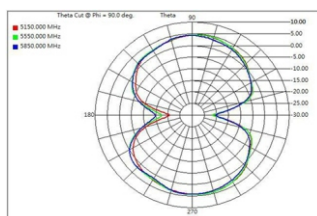
- 2.4GHz E-Plane



- 5GHz H-Plane



- 5GHz E-Plane



## Receiving Sensitivity

- 802.11a: -73 dBm (typical) @ 54 Mbps
- 802.11b: -88 dBm (typical) @ 11 Mbps
- 802.11g: -74 dBm (typical) @ 54 Mbps
- 802.11n (2.4GHz): -74 dBm (typical) @ 300 Mbps
- 802.11n (5GHz): -72 dBm (typical) @ 300 Mbps
- 802.11ac: -58 dBm (typical) @ 867 Mbps
- 802.11ax (2.4GHz): -59 dBm (typical) @ 573 Mbps
- 802.11ax (5GHz): -53 dBm (typical) @ 1201 Mbps

## Certifications

- FCC

## Dimensions

- 122 x 205 x 45mm (4.8 x 8.07 x 1.77 in.)

## Weight

- 706g (24.9 oz.)

## Warranty:

- 3 year

## Package Contents

- TEW-941APBO
- 2 x Detachable 2.4GHz 5 dBi antennas
- 2 x Detachable 5GHz 5 dBi antennas
- IP67 weather rated cable gland
- Mounting hardware
- Quick Installation Guide

## Disclaimer

\*\*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. For maximum performance of up to 1201Mbps use with a 1201Mbps 802.11ax 5GHz wireless adapter. For maximum performance of up to 573Mbps use with a 573Mbps 802.11ax 2.4GHz wireless adapter. Multi-User MIMO (MU-MIMO) requires the use of multiple MU-MIMO enabled wireless adapters.

\*Feature reserved for use when device is managed by TRENDnet Hive.

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.