



## **TEW-412APBO** **54Mbps 802.11g 9dBi High Power Wireless Outdoor AP Bridge**

TRENDnet's TEW-412APBO is a High Power Wireless Access Point designed for enterprise applications. The TEW-412APBO provides Wireless Access Point, Wireless Bridging, and Wireless Repeater functions integrated into one compact unit. The TEW-412APBO comes with 9 dBi built-in antenna and all weather proof housing architecture, making the TEW-412APBO an ideal device for both indoor and outdoor wireless applications. In addition to the WEP data security, the TEW-412APBO features Wi-Fi Protected Access (WPA) with Temporal Key Integrity Protocol (TKIP) to ensure high level of data integrity for any network projects. The TEW-412APBO also includes 802.1x security protocol for enterprise RADIUS authentication server. The TEW-412APBO is the best network appliance for constructing a new wireless infrastructure or extending an existing corporate network.



### FEATURES

- ... Wi-Fi Compliant with IEEE 802.11g and 802.11b Devices on 2.4Ghz ISM Frequency Band
- ... Supports Access Point, WDS Bridge (P2P, P2MP) & Repeater Modes
- ... Built-in 9dBi High Gain Flat Panel Antenna
- ... Provides Wireless Security with 64-bit/128-bit Wired Equivalent Privacy (WEP) & WPA-TKIP
- ... Provides Layer 2 Isolation and MAC Address Filtering
- ... SSID Broadcast Control & 802.1x Authentication Support
- ... Adjustable Radio Output Power (17, 19, 21 or 23 dBm)
- ... Supports IAPP Seamless Roaming
- ... Power-Over-Ethernet (POE) Support
- ... Flash Memory for Firmware Upgrade, Save/Restore Settings, and Traffic Log
- ... Compatible with Windows 95/98/ME/2000/XP, Linux and Mac OS
- ... Easy Management via Web Browser (HTTP) and Remote Management
- ... Range of 802.11b @23dBm up to 5 km in AP(9dBi) & Client (2dBi); up to 12 km in Bridge (2 x 9dBi) (depends on the environment)
- ... Range of 802.11g @ 23dBm up to 0.8 km in AP(9dBi) & Client (2dBi); up to 2 km in Bridge (2 x 9dBi) (depends on the environment)
- ... 3-Year Warranty

### BENEFITS

- ... **Integration Friendly:**  
Supports Ethernet/Fast Ethernet Network and Web Browser configuration for fast and easy configuration. Power-Over-Ethernet unit supplies the electricity over Ethernet cable
- ... **Performance:**  
Effective built-in 9dBi directional antenna for wireless inter-building network bridging or Internet "Hot-Spot" applications
- ... **Flexible:**  
Works as stand-alone AP, WDS Bridge or Repeater
- ... **Security:**  
Provides 64-bit or 128-bit WEP Encryption, WPA, Access Control List, and Firewall

# TEW-412APBO

## 54Mbps 802.11g 9dBi High Power Wireless Outdoor AP Bridge

### SPECIFICATIONS

#### HARDWARE

##### Standards:

- Wired: IEEE 802.3 (10Base-T), and IEEE 802.3u (100Base-TX)
- Wireless: IEEE 802.11g (54Mbps)

##### LED Indicators:

- Wireless, LAN, Power

##### Antenna Connector:

- Built-in 9dBi Patch Antenna, Vertical Polarization, V45 H45

##### Protocol:

- TCP/IP, IPS/SPX, NetBEUI

##### Dimension (L x W x H):

- 185 x 160 x 55 mm (7.3 x 6.3 x 2.2 inches)

##### Weight:

- 0.7kg (1.54 lbs)

##### Temperature:

- -20°~ 65°C (-4°F~ 149°F)

##### Humidity:

- Max. 95% (Non-Condensing)

#### Power:

- POE Support, External AC/DC Converter 100/230V to 5V DC 1.5A, 3 Watts max.

#### Certification:

- FCC & CE



#### WIRELESS

##### Frequency:

- 2.4 to 2.4835GHz (Industrial Scientific Medical Band)

##### Module Technique:

- 802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps)
- 802.11g: OFDM

##### Media Access Protocol:

- CSMA/CA with ACK

##### Data Rate (auto-fallback):

- 802.11b: 11Mbps, 5Mbps, 2Mbps and 1Mbps
- 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 12Mbps and 6Mbps

#### Security:

- 64/128bit WEP, WPA (TKIP), 802.1x RADIUS Client (MD5, TLS)
- Enable/Disable SSID Broadcast, MAC Address Filtering, Layer 2 Isolation

#### Output Power:

- 17, 19, 21 or 23 dBm (Adjustable)

#### Transmit Power:

- 19dBm±1 @ Nominal Temp Range

#### Receiving Sensitivity:

- 11Mbps 10 – 5 BER @ -87 dBm (typical); 54Mbps 10 – 5 BER @ -71 dBm (typical)

#### Channels:

- 11 Channels (US), 13 Channels (EU)

#### Management

##### Device Configure:

- Web-Based (Http). SNMP MIB

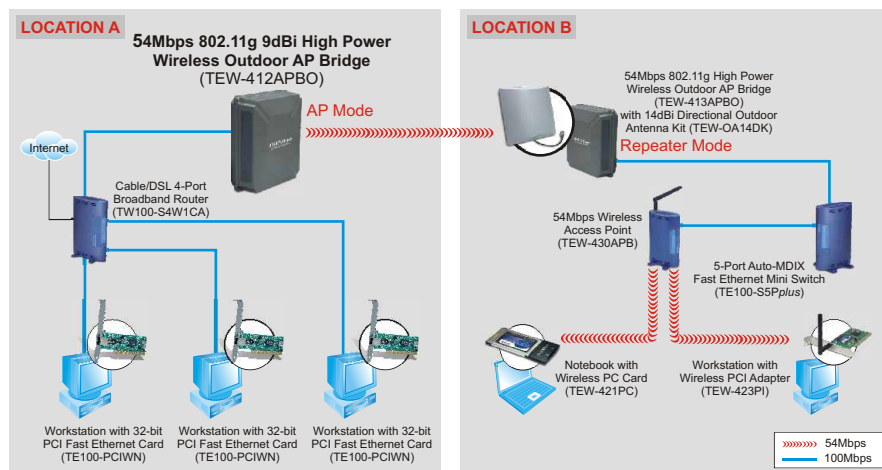
##### Status & Log:

- Device Status, Network Status & System Log

##### Diagnostic:

- Site Survey & Link Test

### NETWORKING SOLUTIONS



Note: Effective wireless coverage may vary depending on the wireless device's output power, antenna gain, antenna alignment, receiving sensitivity, and radio interference. For optimal results, we recommended that you consult a professional installer for site survey, safety precautions, and proper installation

### RELATED PRODUCT

- ❖ **TEW-413APBO:**  
54Mbps 802.11g High Power Outdoor AP Bridge
- ❖ **TEW-430APB:**  
54Mbps 802.11g Wireless Access Point
- ❖ **TEW-421PC:**  
802.11g 54Mbps Wireless CardBus PC Card
- ❖ **TEW-423PI:**  
54Mbps 802.11g Wireless PCI Adapter

### ORDERING INFORMATION

**TRENDware International, Inc.**  
3135 Kashiwa Street  
Torrance, CA. 90505. USA  
Tel: 310-891-1100  
Fax: 310-891-1111  
Web: [www.TRENDNET.com](http://www.TRENDNET.com)  
Email: [sales@trendware.com](mailto:sales@trendware.com)

**To Order Please Call:**  
**1-888-326-6061**

**TRENDnet**  
TRENDware, USA