



## **108Mbps 802.11g High Power Wireless USB 2.0 Adapter**

### **TEW-445UB**

The 108Mbps 802.11g High Power Wireless USB 2.0 Adapter allows you to connect wirelessly at greater range and performance. This device features WEP and WPA encryption and IEEE 802.1x client support for secured wireless data transmission. This 802.11g device seamlessly connects to your wireless network without performance degradation.

### **FEATURES**

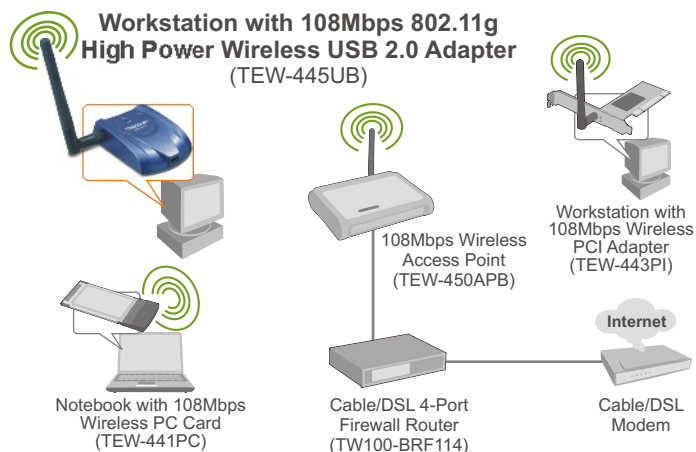
- Wi-Fi Compliant with IEEE 802.11g and IEEE 802.11b Standards
- Supports Ad-Hoc (Peer-to-Peer) Mode or Infrastructure (AP-Client) Mode
- Supports Super G technology Data Rate up to 108Mbps
- Supports eXtended Range Technology with Advanced Power Management
- Capable of handling heavy data payloads such as MPEG video streaming
- Supports IEEE 802.11e(draft) WMM™ QoS (Wi-Fi Multimedia Quality of Service) Standard
- Supports High Output Power up to 23dBm for long range performance
- Dynamic Data Rate Scaling at 108, 54, 48, 36, 24, 18, 12, 9 and 6Mbps for 802.11g
- Dynamic Data Rate Scaling at 11, 5.5, 2 and 1Mbps for 802.11b
- Maximum Reliability, Throughput and Connectivity with Automatic Data Rate Switching
- Compatible with Windows 98SE/ME/2000/XP
- Supports 64/128/152-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK without Performance Degradation
- Low Interference and High Susceptibility Guarantee Reliable Performance
- Range of 50~100 meters indoor, 150~300 meters outdoor (depends on the environment)
- Simple User Setup & Diagnostics Utilities
- 3-Year Warranty

# 108Mbps 802.11g High Power Wireless USB 2.0 Adapter TEW-445UB

## SPECIFICATIONS

| Hardware                  |  |
|---------------------------|--|
| Interface                 | • USB 2.0, 1.1 Compliant   |
| Standards                 | • IEEE 802.11b and IEEE 802.11g  |
| Power Consumption         | • Receive Mode : 300mA @ 5VDC • Transmit Mode : 500mA @ 5VDC   |
| Supported OS              | • Windows 98SE/ME/2000/XP  |
| Dimensions (LxWxH)        | • 72 x 54 x 17 mm (2.8 x 2.1 x 0.7 inches)   |
| Weight                    | • 40 g (1.5 oz.)   |
| Temperature               | • Operating: 0° ~ 55° C (32° ~ 131° F) • Storage: -20° ~ 75° C (-4° ~ 167° F)  |
| Humidity                  | • 5% ~ 95% max (Non-condensing)  |
| Certification             | • FCC, CE  |
| Wireless                  |  |
| Module Technique          | • 802.11b: DSSS (DBPSK, DQPSK, CCK) • 802.11g: OFDM (64-QAM, 16-QAM, WPSK, BPSK)   |
| Frequency                 | • 2.412 ~ 2.484 GHz  |
| Media Access Protocol     | • CSMA/CA  |
| Antenna                   | • 2dBi External Detachable Antenna   |
| Data Rate (auto fallback) | • 802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps<br>• 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps and 6Mbps • SuperG: 108Mbps |
| Transmit Power            | • 802.11b: 20dBm (typically) @ 11Mbps • 802.11g: 19dBm (typically) @ 54Mbps  |
| Receiving Sensitivity     | • 802.11b: -91dBm @ 11Mbps • 802.11g: -76dBm @ 54Mbps  |
| Encryption                | • 64/128/152-bit WEP (Hex & ASCII), WPA/WPA2 (AES/TKIP), WPA-PSK/WPA2-PSK<br>• IEEE 802.1x support for (LEAP/PEAP)                           |
| Channels                  | • 1 ~ 11 (US), 1~13 (EU)   |

## NETWORKING SOLUTIONS



## PACKAGE CONTENTS

- TEW-445UB
- Utility & Driver CD-ROM
- Multi-Language Quick Installation Guide
- 1 x USB 2.0 Cable (10cm/4inches)

## RELATED PRODUCTS

|                   |                                       |
|-------------------|---------------------------------------|
| <b>TEW-441PC</b>  | 108Mbps 802.11g Wireless PC Card      |
| <b>TEW-443PI</b>  | 108Mbps 802.11g Wireless PCI Adapter  |
| <b>TEW-450APB</b> | 108Mbps 802.11g Wireless Access Point |
| <b>TEW-452BRP</b> | 108Mbps 802.11g Wireless AP Router    |

## ORDERING INFORMATION

### TRENDnet®

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