N450 Wireless Access Point
TEW-690AP (V1.0R)

TRENDnet’s N450 Wireless Access Point, model TEW-690AP, supports Access Point, Wireless Distribution System (WDS), and Repeater mode functionality.

Advanced Multiple Input Multiple Output (MIMO) antenna technology with three spatial streams per antenna, generates a maximum theoretical wireless throughput of 450Mbps and exceptional wireless coverage.

A Gigabit Ethernet port maintains high performance wired connections. Wi-Fi Protected Setup (WPS) integrates other WPS supported devices at the touch of a button. Advanced features include 4 SSIDs per wireless band, different encryption for each SSID, WMM Quality of Service data prioritization, WPA2-RADIUS encryption, and a convenient on/off power switch.

FEATURES

- High performance 450Mbps wireless n access point
- 1 x 10/100/1000Mbps Auto-MDIX Gigabit LAN port
- 1 x WPS button
- 1 x Reset button
- On/off power switch (EU Version)
- Diagnostic LEDs
- Wi-Fi compliant with IEEE 802.11n standard
- Backwards compatible with IEEE 802.11g/b devices
- Features Wireless Distribution System (WDS) and Repeater modes for wireless network expansion
- Supports 64/128-bit WEP, WPA/WPA2-PSK, and WPA/WPA2-RADIUS wireless security
- Mac filter feature for added security
- Wi-Fi Multimedia (WMM) Quality of Service (QoS) data prioritization
- Multiple Input Multiple Output (MIMO) antenna technology
- Define up to 3 additional SSIDs
- One touch wireless connection using the WPS button
- Maximum reliability, throughput, and connectivity with automatic data rate switching
- Easy user setup wizard and intuitive Web browser configuration
- Coverage of up to 100 meters indoor (328ft.) and 300 meters outdoor (948ft.) *
- 3-year limited warranty

*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.
## Specifications

### Hardware

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standards</strong></td>
<td>IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.11b, IEEE 802.11g, and IEEE 802.11n</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>1 x 10/100/1000Mbps Auto-MDIX Gigabit LAN port</td>
</tr>
<tr>
<td><strong>LED Indicator</strong></td>
<td>Wireless, LAN, WPS, Power</td>
</tr>
<tr>
<td><strong>Buttons</strong></td>
<td>Reset button – restores factory default settings, WPS button- enables WPS function, On/off power (EU version)</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>12 V DC 0.5A power adapter</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>3.8 watts (max)</td>
</tr>
<tr>
<td><strong>Dimensions (LxWxH)</strong></td>
<td>120 x 84 x 24 mm (4.7 x 3.3 x 1.0 in.)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>160 g (5.6 oz.)</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>Operating: 0° ~ 40° C (32° ~ 104° F); Storage: -20° ~ 60° C (-4° ~ 140° F)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>Max. 90% non-condensing</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>CE, FCC</td>
</tr>
</tbody>
</table>

### Wireless

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Frequency</strong></td>
<td>2.412 ~ 2.472 GHz</td>
</tr>
<tr>
<td><strong>Antenna</strong></td>
<td>2.4GHz: 2dBi (built-in on board), 5GHz: 1dBi (built-in on board)</td>
</tr>
<tr>
<td><strong>Data Rate (auto fallback)</strong></td>
<td>802.11b: up to 11Mbps, 802.11g: up to 54Mbps, 802.11n: up to 450Mbps</td>
</tr>
<tr>
<td><strong>Output Power</strong></td>
<td>802.11b: 18dBm (typical), 802.11g: 15dBm (typical), 802.11n: 15dBm (typical)</td>
</tr>
<tr>
<td><strong>Receiving Sensitivity</strong></td>
<td>802.11b: -84dBm (typical), 802.11g: -72dBm (typical), 802.11n: -69dBm (typical)</td>
</tr>
<tr>
<td><strong>Encryption</strong></td>
<td>64/128-bit WEP, WPA/WPA2-PSK, WPA/WPA2-RADIUS</td>
</tr>
<tr>
<td><strong>Channels</strong></td>
<td>1~ 11 (FCC), 1~13 (ETSI)</td>
</tr>
</tbody>
</table>

### Networking Solutions

- **450Mbps Wireless N Access Point** (TEW-690AP)
- **450Mbps Wireless N Gigabit Router** (TEW-691GR)
- **Notebook with 300Mbps Wireless N USB Adapter** (TEW-624UB)
- **450Mbps Wireless N Notebook with build in 450Mbps Wireless Adapter**

### Package Contents

- TEW-690AP
- CD-ROM (Utility and User’s Guide)
- Multi-Language Quick Installation Guide
- 1 x Cat. 5 Ethernet cable (0.6 m / 2 ft.)
- Power adapter (12V DC, 0.5A)

### Related Products

- **TEW-691GR** 450Mbps Wireless N Gigabit Router
- **TEW-640MB** 300Mbps Wireless N 4-Port Media Bridge
- **TEW-624UB** 300Mbps Wireless N USB Adapter

### Ordering Information

**TRENDnet**

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