

SMB WiFi

AC1750 Dual-Band | 802.3 at/af PoE (PD/PSE) | 3x3 MIMO

WAP-EN1750W



With the latest wireless 802.11ac technology for improvements in the speed, reliability and quality of wireless communications, Comtrend WAP-EN1750W provides simultaneous operation in both 2.4GHz and 5GHz wireless coverage for maximum flexibility.

Additionally, Comtrend WAP-EN1750W features a gigabit LAN port with 802.3at PoE (PD), and a gigabit 802.3af PoE (PSE) port which can power other network devices such as wireless access points or IP cameras.

WAP-EN1750W has a wide range of potential applications from office environments to schools, campuses, hotels and hospitals. Multiple SSIDs can be configured for different departments or user groups and a built-in RADIUS server provides additional verification with a scalable AP array architecture for central management of multiple access points.

FEATURES

- **802.11AC Dual-Band High Speed:**
IEEE 802.11ac concurrent dual-band with 1750Mbps wireless speed.
- **Exceptional Coverage:**
High Power (560mW) and High Sensitivity (-93dBm).
- **Multiple SSID:**
Supports total 32 BSSIDs, 2.4GHz x 16 and 5GHz x 16.
- **Power Over Ethernet**
Supports IEEE 802.3at (PD) and 802.3af (PSE) which can power other network devices.
- **Easy Installation**
Wall-mount design with easy installation kit and magnetic brackets.
- **Solid CAP**
Use Solid CAP as a staple providing better safety and stability
- **Central Management**
Comtrend Network Management Suite (NMS), easy and intuitive central management tool, supports AP array architecture.

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SPECIFICATIONS

HARDWARE

- MCU/RF: Qualcomm Atheros QCA9558(2.4GHz)+QCA9880(5GHz)
- Memory: 128 MB
- Flash: 16 MB
- Physical Interface: LAN: 2 x 10/100/1000 Gigabit Ethernet with PoE, support 802.3at PD(LAN 1)+ 802.3af PSE(LAN 2) WPS / Reset Button USB interface Eject Button (USB eject) DC Power Jack On / Off Switch
- Power Requirement : Power over Ethernet, IEEE 802.3at DC : 12V / 4A

RF

- Wireless Standard : IEEE 802.11 a/b/g/n/ac
- Frequency Band : Radio I: 802.11b/g/n 2.412~2.484(GHz) Radio II: 802.11a/n/ac 5.18~5.24(GHz) 5.26~5.32(GHz), 5.5~5.7(GHz), 5.745~5.825(GHz)
- Operation Channels : 2.4GHz: US/Canada 1-11 2.4GHz: Europe 1-13 2.4GHz: Japan 1-14 5GHz: Support channel is restricted by local regulatory requirements: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165

TRANSMIT POWER (Maximum power is limited by local regulation)

- **802.11b**
27.5dBm@1Mbps
27.5dBm@11Mbps
- **802.11g**
27.5dBm@6Mbps
23.5dBm@54Mbps
- **802.11n(2.4G)**
27.5dBm@ MCS0
22.5dBm@ MCS7
- **802.11a**
26.5dBm@6Mbps
22.5dBm@54Mbps
- **802.11a/n(5G)**
27.5dBm@MCS0/MCS8
22.5dBm@MCS7/MCS15
- **802.11ac**
27.5dBm@MCS0
25.5dBm@MCS7
19.5dBm@MCS9

RECEIVER SENSITIVITY

- **802.11b**
≤-93dBm@1Mbps
≤-85dBm@11Mbps
- **802.11g**
≤-86dBm@6Mbps
≤-72dBm@54Mbps
- **802.11gn(2.4G)**
≤-83dBm@MCS0
≤-66dBm@MCS7
- **802.11a**
≤-90dBm@6Mbps
≤-74dBm@54Mbps
- **802.11a/n(5G)**
≤-90dBm@MCS0 (HT20)
≤-70dBm@MCS7 (HT20)
≤-87dBm@MCS0 (HT40)
≤-68dBm@MCS7 (HT40)
- **802.11ac**
≤ -84dBm@MCS0
≤ -58dBm@MCS9

SOFTWARE

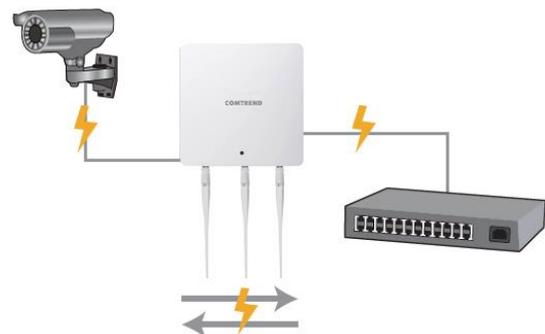
- Multiple BSSID: Total 32 (16 for 2.4GHz, 16 for 5GHz)
- VLANs : SSID and Ethernet port based Tag/Untag (VID = 1 ~ 4096)
- Wireless Mode : 11 a/11b/11g/11n/11ac Channel selection (Setting varies by country) Channel bandwidth (Auto, 20, 40, 80MHz) Transmission Rate : 2.4GHz: 11b, 11g, 11b/g, 11g/n, 11b/g/n 5GHz: 11a, 11a/n, 11a/n/ac
- Pass-through : Support IPv6 and VPN Pass-through
- QoS : WMM, Max Associated Station Number Max Associated Station Number
- Security : WPS - Wi-Fi Protected Setup WEP Encryption – 64/128 bit WPA Personal (WPA-PSK using TKIP or AES) WPA Enterprise (WPA-EAP using TKIP) 802.1x Authenticator : MD5/TLS/TTLS/PEAP EAP-FAST, EAP-SIM, MAC Authentication SSID Broadcast: enable / disable 256 WLAN MAC Address Filter WLAN L2 isolation (AP mode) Wireless STA (Client) connected list

MANAGEMENT

- Tx Power Control: Adjust power by 10, 25, 50, 75, 90, 100%
- Configuration: Web-based configuration HTTP/HTTPS/SSH/CLI
- Firmware: Upgrade via WEB, CLI, USB and FTP
- SNMP: v1, v2c, v3. MIB II, IEEE802.11MIB, BridgeMIB, Interface MIB, Private MIB
- Auto-Channel: Automatically selecting lease congested channel
- Backup & Restore: Save & restore settings through web interface and USB memory stick.
- CLI: Support Command Line Interface
- Local Radius: Radius Server Built-in (256 Accounts Support)

ENVIRONMENT & PHYSICAL

- Temperature Range: Operation : 0 to 40°C (32 to 104°F) (Use Power Adapter) Storage : -20 to 60°C (-4 to 140°F)
- Certifications : FCC, CE
- Dimensions: 183mm(L) x 183mm(W) x 36mm(H)
- Weight: 560g (with antennas)



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