Description:

The EW-7301APG is an IEEE802.11 b/g outdoor (industrial grade) high-performance, wireless AP/ Bridge/ WDS Repeater that supports high-speed wireless networking in open public space. The EW-7301APG can operate as a Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Repeater and can be configure with different operation methodology in one device.

It supports up to 4 virtual access points (VAP) per radio, with unique BSSIDs. Traffics from each VAP can be tagged to a unique VLAN and /or bridged if required. Each VAP will be able to configure its own security.

The EW-7301APG provides data transfers at up to 54 Mbps (compared to the standard 11 Mbps mode). The IEEE 802.11g standard is backwards compatible with 802.11b products. You may choose to slowly change your network by gradually replacing the 802.11b devices with 802.11 b/g devices.

Key feature:

• Atheros SOC solution
• IEEE 802.11 b/g
• Supports 802.3af Power over Ethernet
• Provides High Speed Data Rate Up to 54Mbps
• Supports high RF Output Power up to 26Bm ± 2
• Provides Point-to-point, Point-to-multipoint Wireless Connectivity
• Supports data encryption: WEP/WPA/WPA2/IEEE 802.1x Authenticator
• WDS (Wireless Distribution System)
• Dust tight and Watertight and Weatherproof (up to IP65)
• Wide temperature range and robust mechanical design
• Web-based management interface
# FEATURES AND TECHNICAL SPECIFICATIONS

## General
- IEEE 802.11b/g, IEEE 802.1x, IEEE 802.3, IEEE 802.3u
- Active Ethernet (Power over Ethernet) – 12VDC/External Unit: Auto sensing 100/240 VAC; 50/60Hz
- Waterproof and Dust-tight (IP 65)

## Networking Information
- Point-to-Point/Point-to-Multi points/AP/WDS
- One 10/100 Mbps RJ-45 (Auto Switch)
- Security:
  - IEEE802.1x / RADIUS Client (EAP-MD5/TLS/TTLS, PEAP) Support in AP Mode
  - IEEE802.1x Supplicant (EAP-MD5/TLS/TTLS, PEAP) support in Client Bridge Mode
  - WPA* – Wi-Fi Protected Access
  - PSK (Pre share key) with 64/128-bit WEP Key
  - EAP-MD5/TLS/TTLS authenticator support
  - TKIP
  - MAC address filtering
  - Layer2 Isolation
  - VLAN tunneling Support
  - Hide SSID in beacons
- DHCP client/server

## RF Information
- 2.4~2.484GHz
- Carrier sense multiple access with collision avoidance (CSMA/CA)
- 802.11 b:
  - Direct-Sequence Spread Spectrum (DSSS)
  - DBPSK @ 1Mbps
  - DQPSK @ 2Mbps
  - CCK @ 5.5 and 11Mbps
- 802.11 g:
  - Orthogonal Frequency Division Multiplexing (OFDM)
  - BPSK @ 6 and 9 Mbps
  - QPSK @ 12 and 18 Mbps
  - 16-QAM @ 24 and 36 Mbps
  - 64-QAM @ 48 and 54 Mbps
- Sensitivity:
  - IEEE802.11g: -94dBm ± 1 (6Mbps)
  - -74dBm ± 1 (54Mbps)
  - IEEE802.11b:
  - -97dBm ± 1 (1, Mbps)
  - -92dBm ± 1 (11Mbps)
- Transmit Output Power (Typical):
  - IEEE802.11g: 26dBm ± 2
  - IEEE802.11b: 26dBm ± 2
- Antenna: Switchable 9dBi internal panel antenna with SMA external connector

## Environmental
- Operating temperature: -10°C to 60°C
- Storage temperature: -40°C to 85°C

## Management
- Web-based configuration (HTTP)
- Telnet configuration

## Environmental Regulation Certifications
- FCC/CE