Overview

The WA4184 is an IP66 outdoor wireless access point with wider operating temperature rage features. It can be deployed as a wireless mesh, access point, client (client-bridge), or bridge. Each unit supports 802.11a 5 GHz and 802.11b/g 2.4GHz in all modes with up to 54Mbps throughput, plus Turbo A and Supper G for higher throughput of 108Mbps. It can be managed and configured from a Web interface via LAN port or WLAN interface. For secure communication, the WA4184 provides WEP, WPA, or WPA2-802.11i with 128 AES encryption in AP and client modes. Bridge mode has proprietary AES-based encryption. With its IP66 weatherproof case and multi-functional wireless features the WA4184 is ideal for outdoor communications applications.
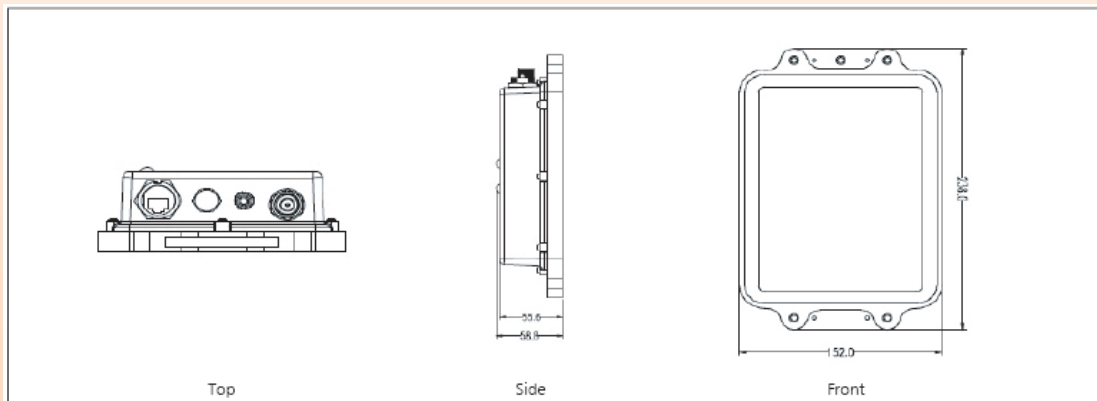
Features

- WLAN interface supports up to 54Mbps throughput, plus Turbo A and Super G for higher throughput of 108 Mbps
- Various kinds of operation modes supported: AP/ Bridge(WDS)/ AP-Client/ Mesh
- IP66 weatherproof specification sustains harsh environment application
- Operating temperature from -30°C to 70°C, test at -40°C to 80°C

- WEP/WPA/WPA2-802.11i with 128 AES in AP and client modes
- Proprietary AES-based encryption in Bridge mode Detects and reports rogue APs through E-mail
- Web server/ HTTPS/ SNMP Agent/ SNMP Trap supported secured management
- Provides IP table to prevent access from unauthorized IP address

Ordering Information

WA4184	Hardened IP66 Outdoor Wireless Access Point

Diagrams

Top   Side   Front

Specifications

Technology

Standards:
- IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x

Forward and Filtering Rate:
- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Processing Type:
- Store-and-Forward
- Half-duplex back-pressure and IEEE802.3x Full-duplex flow control

Power

Input:
- Input Voltage: 24VDC (110-240VAC PSU Provided)
  (PoE Injector and Power Adapter is included within the package)

Power Consumption:
- 12W

Mechanical

Casing:
- Aluminium case
- IP 66

Dimensions:
- 152mm (W) x 238mm (D) x 58.8mm (H)
  (5.98" (W) x 9.37" (D) x 2.31" (H))

Weight:
- 1.13Kg (2.5lb.)

Installation:
- Panel mount (The panel mounting kit is included within the package)

Interface

Ethernet Port:
- 10/100Base-TX: 1 port

LED Indicators:
- Per Unit: Power Status
- Per Port: WLAN

Wireless LAN:
- Standard Compliance:
  IEEE802.11a/b/g for Wireless LAN
  IEEE802.11i for Wireless Security
  IEEE802.1D for Spanning Tree Protocol
  IEEE802.1h for Dynamic Frequency Selection/ Transmit Power

Control
- Spread Spectrum and Modulation:
  DSSS with DBPSK, DQPSK, CCK
  OFDM with BPSK, QPSK, 16QAM, 64QAM
- Transmission Rates:
  802.11b: 1, 2, 5.5, 11 Mbps
  802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
  802.11g Supper: 72, 96, 108 Mbps
  802.11a Turbo: 72, 96, 108 Mbps
- TX Power:
  802.11b: 19dBm +/- 3dBm at all rates
  802.11g: 19dBm +/- 3dBm at 6 to 24Mbps
  802.11a: 18dBm +/- 2dBm at 6 to 24Mbps
- RX Sensitivity:
  802.11b: -93dBm at 1Mbps; -88dBm at 11Mbps
  802.11g: -89dBm at 6Mbps; -70dBm at 54Mbps
  802.11a: -84dBm at 6Mbps; -68dBm at 54Mbps

- Encryption Security:
  WEP: (64-bit, 128-bit and 152-bit)
  WPA-PSK
  WPA (IEEE802.1x) - Dynamic Key Authentication supported
- WPA2: IEEE802.11i
  AES- CCMP
  Enable/disable broadcast SSID
  MAC address filtering
- Rogue wireless AP detection with email notification

Default Antenna:
- 4.5/7 dBi, 2.4/5 GHz dual-band omni-direction, N-type (male)

LAN Network Mode:
- Wireless Access Point (WAP)
- Wireless Client (STA)
- Wireless Bridge (WDS)

Environment

Operating Temperature:
- -30°C to 70°C (-22°F to 158°F)
- Test @ -40°C to 80°C (-40°F to 176°F)

Storage Temperature:
- -40°C to 80°C (-40°F to 176°F)

Ambient Relative Humidity:
- 5% to 95% (non-condensing)

Regulatory Approvals:

ISO:
- Manufactured in an ISO9001 facility

Emission Compliance:
- CE Mark Class A, FCC Part 15 Class A

Environmental Test Compliance:
- IEC60068-2-6 Fc (Vibration Resistance)
  5g @ 10~150Hz, Amplitude 0.35mm
  (Operation/Storage/Transport)
- IEC60068-2-27 Ea (Shock)
  25g @ 11ms (Half-Sine Shock Pulse; Operation)
  50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)
- IEC60068-2-32 Ed (Free Fall)
  1M (3.281ft.)