

WA6202/WA6202M Dural-Band Enterprise Outdoor Bridge Access Point



The Edge-Core WA6202/WA6202M, 802.11a+b/g dual band wireless outdoor bridge AP, provides a band for wireless connection to support point to point building-to-building bridge function while simultaneously using another band to support wireless connection for outdoor user access.

Product Overview

The Edge-Core WA6202/WA6202M, 802.11a+b/g dual band wireless outdoor bridge AP, provides a band for wireless connection to support point to point building-to-building bridge function while simultaneously using another band to support wireless connection for outdoor user access.

The bridge function of Edge-Core WA6202/WA6202M provides a 802.11a or 802.11b/g wireless connection to support data rate up to 108 Mbps that is best suited for enterprises, campus or off-site locations that require LAN or Internet access without the availability of wired networks to extend the network coverage. The WA6202/WA6202M provides point to point and point to multi-point connection. For point to multi-point connection, WA6202 needs to have WA6202M as a base station.

The AP functions of Edge-Core WA6202/WA6202M also support 802.11b/g wireless connection for outdoors user.

The wireless bridge/AP solution contains a state of the art wireless Bridge/AP, high gain performance 17dBi flat panel antenna for 802.11a or 802.11b/g backbone connection and a 10dBi omni-directional antenna for outdoor wireless user connection. For further protection, the bridge/AP and Power over Ethernet adapter have build in lightning protector.

Key Benefits

Safeguarding

The Edge-Core WA6202/WA6202M supports up-to-date WLAN security with 64/128 and 152-bit WEP encryption. WPA (Wi-Fi protected Access) TKIP and AES are also available for Access Point functions for enhanced, interoperable, forward-compatible Wi-Fi security. Includes MAC address authentication.

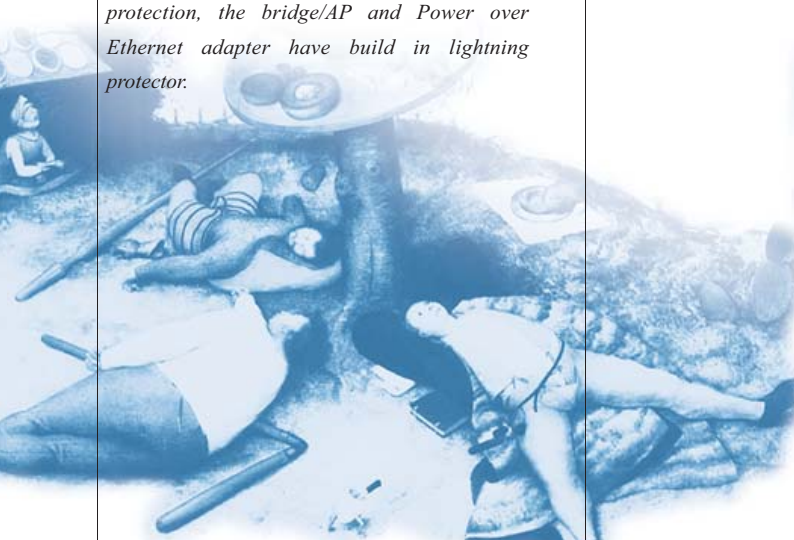
The Static AES encryption function is supported for outdoor bridge packet transmission.

Uncomplicated

The Edge-Core WA6202/WA6202M is simple to install and use and is easy on your budget. Dynamic rate shifting automatically matches the best connection speed, and Auto Network Connect keeps users connected to the network, even while roaming.

Intelligent

The Edge-Core WA6202/WA6202M supports Simple Network Management Protocol SNMP v1, v3 is available with a future firmware upgrade. Power over Ethernet is supported with stuffing option PoE circuit. 802.1x port-based authentication protocol support with Extensible Authentication Protocol (EAP) MD5, Transport Layer Security (TLS), Protected EAP (PEAP) and Tunneled TLS (TTLS) for AP function. For the bridge function, a mutual authentication between any two bridge APs are supported through EAP MD5 protocol.



The Land of Cockayne, Pieter the Elder Bruegel, 1567

Marc Chagall said "Someone told me that sincerity is out of fashion, and that explains everything", For Edge-Core, it is always our fashion.

Specification

Ethernet Interface Features

- Supports 10/100BASE-T/TX compatible with IEEE802.3
- Minimum of four encryption keys
- Accepts power from POE (Power Over Ethernet) and power adapter (IEEE 802.3af standard)
- Supports half and full duplex mode 10/100Mbps speed for Ethernet port
- DHCP Client

Wireless Network Standard

- Interoperable with IEEE 802.11a compliant equipment
- Auto data rate switching with 6,9,12,18,24,36,48,54 and turbo mode provided by Chipset allows auto fallback data rate for optimized reliability, throughput and transmission range.
- Fixed data rate is set through management interface
- Supports fixed antenna
- Auto-Channel Selection
- Advanced Setting
 - Transmitting power
 - Five Levels: Full, -3dB(50%), -6dB(25%), -9dB(12.5%), MIN
 - Threshold
 - RTS/CTS, Fragmentation
- Selectable long or short preamble
- 17dBi directional flat panel antenna that offers up to 20 kilometres of transmission range in 6MHz data rate over the free space.
- Selectable Beacon Interval
- WDS Bridge (AP to AP) : PtP, PmP
- Selectable DTIM Interval
- 802.1D transparent Bridging

Security

- 802.1x Authentication Access Control with Key Rotation
- 802.1x mutual Authentication Access Control between two bridged APs
- WEP security - 64/128/152 bit
- Local MAC address filtering
- Radius Client support
- ACL
- WPA and AES
- Close System
- SSL/SSH*

Management

- QoS
- VLAN support up to 64 group
- Web Interface
- Telnet, CLI
- SNMP v1/v3* Management
- Dural firmware images
- Event Logging
- Syslog RFC 3164
- Supports DHCP client for IP address assignment
- Configuration file upload/download
- System Watchdog
- Supports 802.1D Spanning Tree protocol*

MIB Support

- RFC1213 MIB-2
- IEEE 802.11 MIB
- Accton Private MIB

Mechanical

- Dimension:198mm x 198mm x 63.3mm

Electrical

- Radio: Complies with IEEE 802.11a/b/g

* future specification

Frequency Band

- IEEE 802.11a
 - 5.15 ~ 5.25GHz (lower band) for US/Canada, Japan
 - 5.25 ~ 5.35GHz (middle band) for US/Canada
 - 5.725~ 5.825GHz (upper band) for US/Canada
 - 5.50~ 5.70GHz for Europe
- IEEE 802.11b/g
 - 2400 ~ 2483.5 MHz for US, Canada, and ETSI
 - 2400 ~ 2497MHz for Japan

Modulation Type:

- IEEE 802.11a
 - BPSK, QPSK, 16-QAM, 64-QAM
- IEEE 802.11b/g
 - CCK, BPSK, QPSK, OFDM

Data Rates

- IEEE 802.11a
 - 6/9/12/18/24/36/48/54 Mbps Up to 108Mbps (turbo mode)
- IEEE 802.11b/g
 - 1/2/5.5/11 (11b) Mbps
 - 6/9/12/18/24/36/48/54 Mbps (11g)

Media Access Protocol: CSMA/CA with ACK

- Nominal AC input to POE : 100~240 Vac, 50~60Hz
- Power over Ethernet: Input voltage 48V

Operating Channels

- IEEE 802.11a
 - 12 channels in base mode (US, Canada)
 - 5 channels in turbo mode (US, Canada)
 - 4 channels (Japan)
 - 11 channels in base mode (Europe)
 - 4 channels in turbo mode (Europe)
- IEEE 802.11b/g
 - 11 channels in base mode (US, Canada)
 - 3 channels (ETSI)
 - 4 channels (Japan)

Regulatory Compliance

- Safety: CSA/NRTL (UL1950, CSA 22.2.950), TUV/GS (EN60950)
- Electromagnetic Compatibility: CE mark, FCC Class B, CISPR Class B

Environmental

- Operating Temperature: ETS 300 019-2-4 Class 4.1E modified -33°C to 55°C. Vibration class 4M3
ETS 300 019-2-4 Class 4.1E modified -33°C to 55°C. Vibration class 4M3
- Transportation Environment : ETS 300 019-2-2 Class 2.3
Public Transportation
- Storage Environment Shock: IEC 68-2-29
- Drop: IEC 68-2-32
- Wind (Operational) :90 MPH
- Wind (Survival) : 125 MPH

Antenna

- Fixable Antenna
- Optional Antenna
 - IEEE 802.11a
 - Extenal +23dBi Flat Panel Antenna
 - Extenal +8dBi Omni Antenna
 - IEEE 802.11b/g
 - Extenal +8dBi Omni Antenna

Coverage Range

- IEEE 802.11a
 - Up to 3km@54Mbps (AP mode)
- IEEE 802.11b/g
 - Up to 500m@54Mbps, with Build in +17 dBi Antenna

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