

IWE2200-Aa

IEEE802.11a/b/g Access Point / Bridge

interepoch



Wireless Communication for Public Hotspots, Enterprises and Point-to-Point Bridging Applications

Wireless access point

The high performance and stable interepoch IWE2200-Aa provides easy wireless access for mobile users in public areas. The IWE2200-Aa is fully compliant with any Wi-Fi certified wireless LAN client and provides anywhere, anytime wireless connectivity for mobile users who want to share files, send emails or access the Internet.

Wireless bridge

The IWE2200-Aa provides a highly reliable wireless point-to-point networking solution for distant locations. The standard WDS (Wireless Distribution System) technology provides up to 6 static point-to-point bridging links. The AP client technology automatically establishes dynamic bridging links with APs from any vendor. The AP client technology is very suitable for networks that needs link backup or point-to-multipoint bridging applications.

Enhanced great security

The IWE2200-Aa can authenticate and authorize wireless users in organizations, enterprises, or public areas by the IEEE 802.1x standard. It communicates with a backend RADIUS (Remote Authentication User Dial In Service) server to see if a wireless user is allowed to access the wireless network. Windows XP has built-in support for IEEE 802.1x. WEP, WPA and WPA2 is also supported for better wireless security.

Ease of installation and management

Network administrator can centrally manage the IWE2200-Aa via a Web browser or an SNMP MIB browser.

Suitable for public wireless access

The advanced model of IWE2200-Aa contains features that are especially useful in public areas such as hotspots and enterprises. The wireless client isolation feature prevents wireless hackers from attacking other wireless subscribers computers. The AP load balancing feature enables wireless client associations and traffic load to be shared among all the APs within a group. The link integrity features will enable AP continually monitors the receive data path over the indicated server for activity as a means of checking that the link is working correctly. It will protect public users from being overcharged by ISP or Hotspot service.



Wireless Your Business, Wireless Your Life

About Interepoch

INTEREPOCH delivers value to its customers by designing and manufacturing wireless communication solutions that enable people to communicate effortlessly. The depth and experience of the R&D teams have contributed to the rapid recognition of INTEREPOCH as a leading force in the manufacturing of wireless communication devices.

INTEREPOCH's core business strategy focuses on the OEM/ODM sector of the Wireless Industry, thereby giving it the competitive edge to produce award winning wireless communication solutions for public hotspots and enterprises.

Technical Specification

Key features

Wireless

- IEEE802.11a/b/g compliant
- WDS - static bridging
- AP client - dynamic bridging
 - AP browsing with signal strength
 - Preferred ESSID/BSSID selection
- Transmit power control
- Associated wireless clients status
- Data rate settings

Public hotspots

- Link integrity
- Wireless client isolation
- AP load balancing
- Association control

Networking

- DHCP client & server
- Current DHCP mapping table
- Static DHCP mapping
- Packet filtering (Ethernet/IP/TCP/UDP/Port)

Security

- 64/128/152-bits WEP
- 64/128-bits 802.1x with Dynamic WEP
- WPA, WPA2 - Personal, Enterprise
- WDS with WEP
- AP Client with WEP, WPA, WPA2 (Optional)
- Disabling SSID broadcasts
- MAC-address-based access control
- VPN passthrough

Management

- Various set of tools for remote management: Web-based, and UPnP
- Secure administration
- SNMP v1 & v2
- SNMP traps: Standard and private traps
- MIB II, IEEE 802.11 IEEE 802.1d, IEEE 802.1x, and private enterprise MIB
- System log
- Firmware upgrade via HTTP
- Configuration backup & restore
- Hardware watchdog timer

Interface	IEEE802.3u 10/100BaseTX Ethernet (RJ-45)
Antenna	One 2.4GHz / 5GHz rubber R-SMA detachable antenna
Wireless	
Frequency Band	802.11a Unlicensed National Information Infrastructure (U-NII) frequency band, 5.15-5.85 GHz (subject to local regulations) 802.11b/g ISM band 2.400-2.4835 GHz (subject to local regulations)
Modulation	802.11a/g OFDM 802.11b CCK (11 / 5.5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
Number of Non-Overlapping Channels	802.11a USA and Canada -13, Europe - up to 19 (Subject to Country Regulations), Japan - 4 802.11b/g USA and Canada -3, Europe -3, Japan - 3
Transmit Power	802.11b 17dBm±1.5dBm@3-11 Mbps, typical 802.11a/g 12dBm±1.5dBm@54 Mbps, typical
Receiver Sensitivity	802.11a/g Nominal Temp Range (typical): -40dBm @ 6Mbps, 10-5 BER, -90dBm @ 2Mbps, 10-5 BER -88dBm @ 12Mbps, 10-5 BER, -87dBm @ 18Mbps, 10-5 BER -93dBm @ 24Mbps, 10-5 BER, -90dBm @ 36Mbps, 10-5 BER -74dBm @ 48Mbps, 10-5 BER, -70dBm @ 54Mbps, 10-5 BER 802.11g Typ. -87dBm @ 11Mbps, typical Typ. -91dBm @ 5.5Mbps, typical Typ. -93dBm @ 2Mbps, typical Typ. -93dBm @ 1Mbps, typical
Physical & LEDs	Dimensions 220mm (L) x 142mm (W) x 40mm (H) LEDs Power, LAN Link/ACT, RF Link/ACT, System/alive
Environmental	Operating Temperature 0-50°C Humidity 5%-95% (non-condensing) Storage Temperature -20-70°C Humidity 5%-95% (non-condensing)
Power supply	Operating Voltage DC +5V Power over Ethernet IEEE 802.3af compliant
Ordering information	IWE2200-Aa1pa IEEE 802.11a/b/g AP/Bridge, w/PoE, 100mW IWE2200-Aa1pa IEEE 802.11a/b/g AP/Bridge, 100mW IWE2200-Aa5pa IEEE 802.11a/b/g AP/Bridge, w/PoE, 500mW IWE2200-Aa5pa IEEE 802.11a/b/g AP/Bridge, 500mW IWE500-NU 1-port PoE injector



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