

IWE1300-A

IEEE802.11b Long-Range Access Point

interepoch



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

Wireless access point

The high performance and stable interepoch IWE1300-A provides easy wireless access for mobile users in public areas. The IWE1300-A is fully compliant with any Wi-Fi certified wireless LAN client and provides anywhere, anytime wire-less connectivity for mobile users who want to share files, send emails or access the Internet.

Wireless bridge

The IWE1300-A 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 bringing 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. For easy diagnostics, the Windows based Wireless Network Manager (WNM) utility provides the WDS link quality indicator and WDS link health monitoring features to check signal quality based on a remote point-to-point testing mechanism.

Enhanced great security

The IWE1300-A 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 and WPA, is also supported for better wireless security.

Support Multiple SSID (Optional)

You can configure and store up to four SSIDs with different security profiles for groups of users. IEEE 802.1Q-compliant VLAN support works with the multiple SSID feature to control access to network resources and segment user traffic.

Enhanced transmit power

The long-range model of IWE1300-A provides higher transmit power up to 500mW (27dBm). Higher transmit power enables a longer operating range for more flexible and cost effective wireless applications. And, the transmit power of the AP's RF module can be adjusted to change RF coverage of the AP.

Suitable for public wireless access

The advanced model of IWE1300-A 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.



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

- IEEE802.11b compliant
- High transmit power up to 200mW
- 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
- Packet filtering (Ethernet/TCP/UDP/Port)

Security

- Encryption: WPA, AES, TKIP and WEP
- Multiple SSID support (optional)
- RADIUS server MAC-based and IEEE 802.1X AAA support
- Disabling SSID broadcasts
- MAC-address-based access control
- VPN passthrough
- 802.1Q VLAN support

Management

- Various set of tools for remote management: Web-based, and UPnP
- 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 and TFTP
- Configuration backup & restore
- Hardware watchdog timer

Interface

Ethernet	IEEE802.3u 10/100BaseTX Ethernet (RJ-45)
Antenna	One 2.4GHz rubber R-SMA detachable antenna

Wireless

Frequency	2.4-2.4835 GHz, Direct Sequence Spread Spectrum (DSSS)
Data Rate	CCK@11/5.5Mbps, DQPSK@2Mbps and DBSK@1Mbps
Channel	USA: 1-11 (FCC), Canada: 1-11 (IC), Europe: 1-13 (ETSI), France: 10-13, Japan: 1-14
Transmit Power	17dBm (Normal model), up to 27dBm (Long range model)
Receiver Sensitivity	Better than -85dBm
Line-of-Sight Range	1200ft (400meters) with outdoor line of sight

Physical & LEDs

Dimensions	175mm (L) x 140mm (W) x 40mm (H)
LEDs	Power, LAN Link/ACT, 2*RF Link/ACT, System alive

Environmental

	Temperature	Humidity
Operating	0-50 °C	5%-95% (non-condensing)
Storage	-20-70 °C	5%-95% (non-condensing)

Power supply

Operating Voltage	DC +5V
Power over Ethernet	IEEE 802.3af compliant and PowerDsine certified (optional)

Ordering information

IWE1300-A9S37X1	IEEE 802.11b AP w/100mV
IWE1300-A9S37X2	IEEE 802.11b AP w/200mV
IWE1300-A9S37X2E	IEEE 802.11b AP w/POE+200mV
IWE1300-A9S37X3E	IEEE 802.11b AP w/POE+300mV
IWE1300-A9S37X5E	IEEE 802.11b AP w/POE+500mV
IWE1300-A9S37C1E	IEEE 802.11b Multiple-SSID AP w/POE+100mV
IWE1300-A9S37C2E	IEEE 802.11b Multiple-SSID AP w/POE+200mV
IWE1300-A9S37C3E	IEEE 802.11b Multiple-SSID AP w/POE+300mV
IWE1300-A9S37C5E	IEEE 802.11b Multiple-SSID AP w/POE+500mV
IWE500-INJ	1-port PoE Injector



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Web site: www.interepoch.com
E-mail: sales@interepoch.com

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