



Introducing the WG-SAP Dual Radio High Power Access Point / Bridge.

With the WG-SAP station, service providers can provide wireless broadband Internet access without having to invest in expensive infrastructure.

Experience the freedom of mobile network access anywhere.

- **Easy to install and configure using your [web browser](#)**
- **11 Mbps maximum performance**
- **Dual independent radios**
- **First radio uses an included 8db Omnidirectional antenna which yields up to 1Km for laptops and 5Km with a [WG-CPE](#)**
- **Second radio uses an integrated 19dbi antenna which yields up to 10Km for a [WG-CPE](#) and 15Km with another WG-SAP Long Range**
- **IEEE 802.11b Wi-Fi compatible**
- **100% T1/DSL/cable compatible (ethernet)**
- **Bridge or Route between wired and wireless networks**
- **Extend the range of your wireless network with WDS Bridge mode**
- **Extend the range of your wireless network with Dual Radio Bridge mode without losing bandwidth**
- **Built-in VPN Server for unbeatable security**
- **Encrypt Point to Point links with AES 128bit**

In Access Point Mode:

The WG-SAP Wireless Broadband Gateway combines a high performance 802.11b wireless access point for local wireless connections and a 10/100 Ethernet port for a cable or DSL connection which physically separates the local computers from the broadband network. The Gateway automatically routes traffic from the wireless network to the broadband connection.

In Bridge Mode:

The WG-SAP Wireless Broadband Gateway combines a high performance 802.11b wireless bridge, and a 10/100 Ethernet port which also gives you the flexibility to bridge wired networks. The Bridge automatically routes traffic from

the local wireless clients, wired clients and other WG-SAP units.

The WIALAN WG-SAP Wireless Broadband Gateway includes a robust web-based [management system](#) that allows local or remote users to configure the Gateway from any device that can run a browser. PPPoE (point to point protocol over Ethernet) and DHCP (Dynamic Host Control Protocol) client support make configuring the broadband connection extremely easy. Additionally, the Gateway supports DHCP serving and NAT (Network Address Translation) which simplifies the installation process and provides natural firewall security by logically isolating the local network from the broadband cable or DSL network.

Advanced routing features of the WIALAN WG-SAP Wireless Broadband Gateway includes support for:

- Special Internet Applications, such as video streaming and on-line games, that require two-way communications
- Virtual Servers which enable users to install a web, email or other TCP/IP based server on the local network and have it accessible from the internet
- Exposed Computers which provide an unrestricted two-way internet connection for a computer on the local network.
- In Bridge mode, it works as a transparent switch between all the client connected to it and the either another bridge or the main base.

In addition to a full suite of advanced routing features, the WIALAN WG-SAP Wireless Broadband Gateway is a Wi-Fi compatible access point that includes support for 128bit MPPE encryption, and access list security enabling users to protect their wireless network by either encrypting the data or by specifying the address of a wireless adapter before allowing it access to the Ethernet network.

Features	Benefits
Dual compatibility with WIALAN Wireless LAN and backwards compatibility with cable, xDSL and dialup modems	Works inside and outside of WIALAN WANs as well as with popular broadband modems with available RJ-45 Ethernet port
802.11b compatible	Supports any wireless 802.11b compatible device, such as PC and PCI cards, and USB adapters
Web based configuration	Configurable from a Mac or PC
DHCP server and client support	Allows easy setup for both the broadband connection and the local network
Network Access Translation (NAT) support	Shares a single IP address from your ISP with multiple computers

Firewall protection	Protects your computer(s) from unwanted access via the Internet
PPPoE support	Compatible with ISP's that use PPP over Ethernet
User configurable TCP and UDP ports	Run special Internet applications, such as games, without exposing the computer on your local network to the Internet
Built-in VPN Server with 128bit hardware accelerated MPPE encryption and MS-Chap-v2 user Authentication.	Compatible with IPSec and PPTP virtual private networking client software (built-into all Windows versions).
Access control for individual clients or groups	Allows filtering of Internet content to either a single computer or a workgroup

System Requirements

- Ethernet-equipped broadband connection for Access Point Mode
- One computer with a web browser for configuration
- 802.11b compatible device for wireless clients
- Ethernet-equipped device for Bridge Mode

Items	Specs
Frequency	2.4 Ghz Direct Sequence Spread Spectrum
Range	Approximately 12 miles dependent on environment
Radio Data Rate	11 Mps, with automatic fall-back rates of 5.5 Mbps, 2Mbps & 1 Mbps for increased operating range
11 Mbps maximum data rate	Provides Ethernet speed to mobile computers
Maximum Computers	200 plus. Limited only by available bandwidth.
Roaming	Unrestricted throughout coverage area
Interface	1 RJ-45 45 10/100Mb broadband port
Antenna Connection Electrical Properties	- Impedance: 50 Ohms nominal - Connector: N-Female

Compatibility	<p><i>Broadband:</i> Compatible with any broadband connection with an ethernet port (RJ-45 connectors).</p> <p><i>Wireless:</i> Works with other IEEE 802.11b (Wi-Fi) compliant devices including all WIALAN Products</p> <p><i>Ethernet:</i> IEEE 802.3 and 802.3u compliant</p>
Warranty	1 year limited parts and labor
Support	Unlimited technical support in the US and Canada
Box Contents	<ul style="list-style-type: none"> - WG-SAP Wireless Broadband Gateway - 8db Omni Directional Antenna - Power over Ethernet injector/power supply.
MSRP Price	\$2700