



IEEE802.11g Wireless LAN Access Point
Real Life Partner Wave
GW-AP54G



Windows98

Windows98SE

WindowsMe

Windows2000

WindowsXP

CATV/ADSL Support

Feature

Besides the 54Mbps wireless LAN Access Point function, the GW-AP54G incorporates the wireless LAN Converter function. The product is something more than your traditional Access Point, as it can serve both as the Access Point and the wireless LAN Converter, depending on the character of your wireless LAN environment.

■ High-speed data communication at a maximum speed of 54Mbps

The GW-AP45G is fully compliant with IEEE802.11g, thus enables high-speed data communication at a maximum rate of 54Mbps in the same 2.4GHz frequency range used for IEEE802.11b. The product achieves superb data transfer performance for both sending and receiving voice, video and other types of high volume data.

■ Interoperability with existing wireless LAN

Interoperability with currently the most widespread IEEE802.11b products is fully maintained. This enables easy upgrade to the high-speed data communication environment, while allowing to utilize the existing WLAN systems.

■ Burst Mode technology increases the wireless LAN communication performance.

The GW-AP54G supports Burst Mode that significantly improves the IEEE802.11g data transfer rate. Its on-board GlobespanVirata wireless LAN chip "PRISM Nitro" technology implements a packet burst transfer with reduced collision. This results in decreased overhead and enhanced efficiency of communication .

The Burst mode-enabled devices can coexist with products not supporting this functionality, thus can be easily introduced into the existing networking environment.

■ Suitable for outdoor usage

The product utilizes 2.4GHz bandwidth rate, thus is absolutely suitable for the outdoor usage. No license acquisition is required, as the GW-AP54G complies with the Low Power Data Communication System standard.

■ Bridge Mode (Work Group Bridge)

This mode is used to enable communication between access points. In this mode, a wired LAN attached to a GW-AP54G may communicate with wired LAN's attached to other units of GW-AP54G.

■ **Implements the wireless LAN Converter function**

The GW-AP54G utilizes LAN ports (10BASE-T/100-TX) connection interface. This enables the connection of various devices equipped with LAN ports, such as print servers, and allows the seamless introduction of a wired LAN device to the existing wireless LAN network environment.

* The GW-AP54G supports the wireless Access Point function.

■ **Connectivity to the Existing Wired LAN**

While used as the access point, the GW-AP54G provides wireless straightforward connectivity over wired LAN environment.

■ **Compact Size, Vertical Installation Type**

Designed for vertical installation, the compact-size device occupying very little space can be installed almost anywhere.

■ **Wi-Fi Certified**

The product has acquired the Wi-Fi certification that guarantees interoperability between wireless devices manufactured by different vendors.

■ **Security Features**

The product supports WEP (Wired Equivalent Privacy) 64/128-bit to encrypt communication data, making it impossible to decipher should someone intercept the data by any chance. Furthermore, its MAC address filtering function blocks any access from PC's other than those already on the internal access permission list to guard the system against unauthorized accesses.

■ **Supports Roaming**

The GW-AP54G supports Roaming function, which automatically switches (and connects) to the most appropriate access point while the user carries a wireless terminal. This prevents forced disconnections, re-connections and reconfiguration tasks that tend to occur while the user moves with an ordinary wireless communication device.

■ **Configuration via a Web browser**

The GW-AP54G is easily configurable through a web browser. With the graphical setting screens, even an inexperienced user feels comfortable enough performing wireless LAN setup.

■ **Provides Multi-Channel Support**

The product supports up to 13 channels. Unnecessary wireless traffic is eliminated as a unique channel is automatically assigned to each access point. In this way, the GW-AP54G reduces network load and improves data transfer speed.

■ **The antenna can be exchanged.**

This detachable Antenna is allow to replace to some variety Antenna and the antenna cable which has SMA type in order to realize more further sensitive or long distance communication. Adjust the antenna for better reception to improve your communication possibilities.

■ POE Unit

The proprietary power supply unit "GW-POE2" supplies power to an access point via a LAN cable. The GW-POE2 eliminates the user's worries about providing power to specially positioned access points including those mounted to the wall.(sold separately)



Specifications

Product Model Number		GW-AP54G
Wireless Networking	Standards Conformance	ARIB(Japan) /FCC(North America) /ETSI (Europe) IEEE802.11/802.11b/802.11g
	Data Transfer Rate	IEEE802.11b:1/2/5.5/11Mbps automatic detection IEEE802.11g:6/9/12/18/24/36/48/54Mbps automatic detection
	Frequency Range	IEEE802.11b:2400-2497MHz(Japan Band)2400-2483.5(North America, Europe Band)2455-2475MHz(Spand Band) 2446.5-2483.5MHz(France Band)
	Number of Channels	14(Japan) 13(Europe) 11(North America)
	Modulation Type	Orthogonal frequency-division multiplexing (OFDM) Direct Sequence Spectrum Spread (DS-SS)
	Antenna Type	Dipole Antenna
	Access Methods	Infrastructure mode, Ad Hoc mode (802.11 Ad Hoc), Roaming function,Bridge Mode,Wireless LAN Converter mode
	Modulation Method	IEEE802.11b: DBPSK(1Mbps), DQPSK(2Mbps), CCK(5.5/11Mbps) IEEE802.11g: BPSK(6/9Mbps), QPSK(12/18Mbps), 16-QAM(24/36Mbps), 64QAM(48/54Mbps)
	Security Feature	ESS-ID, MAC Address Filtering, 64/128bit WEP
	Wired Networking	Standards Conformance
Ports		10BASE-T/100BASE-TX x 1 Port(RJ-45 UTP/STP)
Data Transfer Rate		10/100Mbps
Supported Cables		UTP/STP Cables 100Mbps: Category 5 or greater 10Mbps: Category 3 or greater

Configuration Interface	Proprietary software, Web browser * OSeS supported by the utility: Windows 98/98SE/Me/2000/XP
LED Indicators	PWR, DIAG, LAN, WLAN
Supported Hardware	IBM PC Compatible (DOS/V)
Supported OSeS	Windows 98/98SE/Me/2000/XP
Power Consumption	5W max.
Dimensions	60(W) x 136(H) x 108(D)mm
Weight	250g
Operating Temperatures	0 to 50 degrees Celcius
Operating Humidity	10 to 90% (non-condensing)
EMI	CE, FCC class B, VCCI class B
Warranty	1 Year
Package Contents	GW-AP54G, AC adapter, User's manual, LAN Cable 1m, Driver Utility CD-ROM

Materials	Negative Impact on Comm. Range (The more asterisks, the shorter the communication range .)	Example
Air	*	-
Wooden	**	Wooden Partition
Plaster	**	Partition walls
Synthetic Materials	**	Partitioning parts in plywood boards
Asbestos	**	Ceilings
Glass	**	Window panes, glass wall plates
Water	***	Damp wooden materials
Bricks	***	Brick walls
Marble	****	Marble walls
Cement/Concrete	****	Floors, walls
Bulletproof glass	****	Walls/ window panes used in watch box
Iron/Steel	*****	Iron partition materials, reinforced concrete walls

Everybody can easily use our wireless LAN products because no wiring / construction work is required. However, data communication between two nodes may fail or slow down significantly if they are separated by any of the materials mentioned.

To ensure stable data communication, it is strongly recommended to remove these objects or environmental factors from the installation site.

