

## GW-US54G IEEE802.11g Wireless LAN Rotational USB Adapter



Multi-Directionals for the best wireless reception

### ► Feature

The GW-US54G is a compact, lightweight 54Mbps Wireless LAN Adapter with the USB2.0/1.1 support. The product is powered through USB port, which eliminates the need of attaching an AC adaptor or other external power supply.

#### ■ IEEE802.11g compliant adapter achieves 54Mbps high-speed data transfer

The wireless LAN adapter fully complies with IEEE802.11g standard and achieves high-speed data communication approaching 54Mbps while using the same 2.4GHz frequency range utilized by IEEE802.11b. This feature enables the product to unleash superior data transfer performance when sending or receiving voice, video and large capacity data files. Furthermore, the wireless LAN adapter retains compatibility with wireless LAN products supporting IEEE802.11b and thusly enables upgrade to faster data communication environment while making the best use of the existing wireless LAN devices in your network.

#### ■ Wi-Fi certified

The GW-US54G is Wi-Fi certified in the IEEE802.11g data transfer mode. The Wi-Fi certification serves as a guarantee of interoperability between wireless devices from different vendors.

#### ■ Reliable security features

The adapter supports 64bit/128bit WEP as well as WPA (Wi-Fi Protected Access), the latest wireless security standard and enables the construction of a truly secure wireless LAN environment.

#### ■ Supports multiple communication modes

In addition to Ad Hoc mode for communication between wireless terminals, the product supports Infrastructure mode in which wireless communication occurs via access points (AP).

#### ■ Supports Roaming

The product supports Roaming, an advanced technology which automatically selects (and connects to) the most appropriate access point while the wireless terminal/client moves.

#### ■ Supplied utility eases wireless configuration

The configuration utility supplied with the product simplifies the configuration and setup of wireless communication. When the site survey function of the program is enabled, the utility automatically detects wireless devices in the effective radio range and displays their ESS-ID as well as wireless channels. Furthermore, the product configuration can be accessed via Windows XP configuration menu since the adapter also supports Wireless Zero Configuration of Windows XP.

■ **Compact, lightweight and angle adjustable stick type chassis**

The dimensions of the adapter are 30 (w) x 15 (H) x 105(D)mm and it weighs only 25g. Moreover, its angle can be adjusted to obtain the best reception.

► **Specification**

Product Model Number	USB Wireless LAN Adapter
	GW-US54G
Interface	USB Rev.2.0(Type A connector) *1
Standards Conformance	IEEE802.11b, IEEE802.11g, ARIB(Japan) /FCC(North America) /ETSI (Europe)
	USB Rev.2.0
Frequency Range	2.4 to 2.4835GHz
Channels	14(Japan) 13(Europe) 11(North America)
Communication Modes	Infrastructure Mode, Ad-Hoc Mode, Roaming
Data Transfer Methods	OFDM (Orthogonal Frequency Division Multiplexing) DS-SS (Direct Sequence Spread Spectrum)
Data Transfer Rate	802.11b:11,5.5,2,1Mbps auto detection 802.11g:54,48,36,24,18,12,9,6Mbps auto detection
Communication Range	802.11b: 11Mbps/220m, 1Mbps/520m(indoor, line-of-sight distance) 802.11g: 54Mbps/25m, 6Mbps/320m(indoor, line-of-sight distance) * Distance subject to change due to environmental conditions
Antenna Type	Built-in chip antenna
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)
LED Indicators	Act, Link
Security Features	64/128bit WEP

		WPA (authentication type: IEEE802.1x/PSK, encryption type: TKIP/AES) *2
<b>Configuration Interface</b>		Configuration utility supplied with the product
<b>Supported Platforms</b>		IBM PC compatible
<b>Supported OSes</b>		Windows XP/2000/ME/98SE
<b>Power Consumption</b>	<b>Working Voltage</b>	DC 5V/370mA
	<b>Power Consumption</b>	1.85W
<b>Dimensions (WxHxD)</b>		30(W) x 15(H) x 105(D)mm *Folded dimensions: 30(W) x 19(H) x 73(D)mm
<b>Weight</b>		25g
<b>Operating Temperature</b>		0 to 40 degrees Celsius
<b>Operating Humidity</b>		35 to 85% (non-condensing)
<b>EMI</b>		CE, FCC Class B
<b>Package Contents</b>		GW-US54G, user's manual, driver/utility CD-ROM

\* Windows 98SE or ME users may have some technical difficulties during installation process case by Microsoft software or PC hardware compatibility issue. Please always update your operating systems to Windows 2000 or XP before installing the product.

\*1 USB1.1 only if the host side does not support USB 2.0

\*2 Requires client OS that supports WPA

Since no cabling is required to set up a wireless LAN, virtually anyone can establish and start using a wireless LAN with ease. However, data communication between two nodes may fail or slow down significantly if they are separated by any of the following materials (see below). To ensure stable data communication, it is strongly recommended to remove these objects or environmental factors from the installation site.

Materials	Negative Impact on Communication Range (*1)	Examples
Air	*	-
Wood	**	Wooden partitioning parts
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 lookouts
Iron/ Steel	*****	Iron partition materials, reinforced concrete walls

▶ **Product View**

