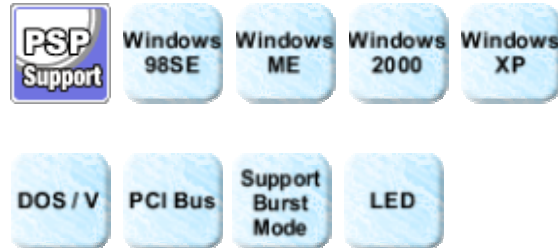


## GW-DS54GT IEEE802.11g Wireless LAN PCI Bus Adapter



Supplied with a desktop antenna



### ► Feature

The GW-DS54GT is a network device that enables your computer connection to a wireless local area network (WLAN). A wireless LAN uses the wireless Radio Frequency (RF) technology to transmit and receive data without having to physically attach to the network. The wireless protocols that come with this product ensure data security and isolation from interference generated by other radio frequencies.

This card also takes full advantage of the mobility for your computer with access to real-time information and online services anytime and anywhere. In addition, this device eliminates the cables through walls and under furniture. You may place your system in locations where cabling is impossible. Modifying and augmenting networks has never been more easy.

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

The GW-DS54GT 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. The product also retains compatibility with wireless LAN products supporting IEEE802.11b, the mainstream standard of wireless LAN standard today. The adapter thus enables upgrade to faster data communication environment while making the best use of the existing wireless LAN devices in your network.

#### ■ Supplied with an external antenna

The GW-DS54GT comes with a highly sensitive dipole antenna (for direct attachment to the product) and an external antenna for desktop installation. Since the desktop antenna is equipped with a 90cm cable, its location can be freely adjusted to get the best radio reception. This feature is especially useful when the PC (to which the GW-DS54GT is attached) needs to be installed near walls or in a location with many obstructions to radio transmission. In this manner, the supplied external antenna improves layout flexibility of PC's in your network.

### ■ Security features

Its on-board 64/128/256 bit WEP function improves communication security as it encrypts communication data, making it impossible to decipher should it be intercepted by an unauthorized party. Furthermore, the product is also scheduled to support the latest wireless security standard "WPA (Wi-Fi Protected Access)".

### ■ 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).

### ■ Supplied configuration utility eases wireless configuration

The wireless operation settings of the GW-DS54GT can be easily configured through the supplied configuration utility program.

### ■ The Peer-to-Peer Network

This network installation enables you to set a small wireless workgroup easily and quickly. Equipped with wireless cardbus adapter or wireless PCI adapter, you can share files and printers between each desktop and laptop computer.

You can also use one computer as an Internet Server to connect to a wired global network and share files and information with other computers via a wireless LAN.

## ► Specification

Model Number	GW-DS54GT
Standard	IEEE 802.11b, IEEE 802.11g standard
Host Interface	PCI Interface 2.2
Antenna	Dipole Antenna
Frequency Range	2.412GHz-2.4835GHz
Number of Selectable Channels	USA, Canada: 11 channels Europe: 13 channels Japan: 14 channels
Modulation Technique	802.11b: Direct Sequence Spread Spectrum (PBCC, CCK, DQPSK, DBPSK) 802.11g: Orthogonal frequency division multiplexing
Data Rate	802.11b(22Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps) 802.11g(54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
Preamble	802.11b: Both Short and Long preamble 802.11g: Long preamble only
Security	Supports wireless data encryption with 64/128/256-bit WEP for security

	Supports CCX and WPA security
<b>Output Power</b>	OFDM : 12dBm (54Mbps) CCK : 16dBm (11Mbps)
<b>Receiver Sensitivity</b>	Meet 802.11b & 802.11g standard
<b>Bit Error rate</b>	Meet 802.11b & 802.11g standard
<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
<b>Power Consumption</b>	Operating Voltage: 3.3V 11g TX: 630mA, RX: 350mA 11b TX: 600mA, RX: 350mA
<b>LED</b>	Power, Link/Act
<b>Physical Specifications</b>	Weight: 90g Dimension: 119.91 (L) x80(W) mm
<b>Environment Specifications</b>	Operating Temperature: 0~60. ambient temperature Storage Temperature: -20~70. mbient temperature Operating humidity: 90% maximum (non-condensing) Storage humidity: 90% maximum (non-condensing)
<b>Supported OS</b>	Windows 98SE/ Windows ME/ Windows 2000/ Windows XP
<b>EMC Certification</b>	FCC,CE,DGT, iDA
<b>Package Contents</b>	One GW-DS54GT,One CD-ROM (GW-DS54GT Driver / Utility and Manual),One Quick Installation Guide,One Warranty Card

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

\*1 The more asterisks, the shorter the communication range