

## GW-NS54GM IEEE802.11g Wireless LAN Adapter



### ▶ Feature

The GW-NS54GM, a CardBus-type 54Mbps Wireless LAN Adapter fully complies with IEEE802.11g standard. The product supports 64bit/128bit WEP encryption, as well as the latest wireless security standard - WPA (Wi-Fi Protected Access), thus enables the implementation of a truly secure wireless LAN environment.

#### ■ Ultra fast data communication at a maximum speed of 54Mbps

As the product supports IEEE802.11g, it enables high speed data communication at a maximum rate of 54Mbps while it utilizes the same 2.4GHz frequency range used by IEEE802.11b. The adapter thus achieves superb data transfer performance for both sending and receiving voice, video and other types of high volume data.

#### ■ Intercommunication with existing wireless LAN

The product is capable of intercommunicating with products supporting IEEE802.11b, the most widely used wireless LAN standard today. The LAN adapter enables easy upgrade to faster data communication environment while allowing its user to fully utilize the existing wireless LAN system.

#### ■ Wi-Fi certified

The GW-NS54GM is Wi-Fi certified in the IEEE802.11b data transfer mode. The Wi-Fi certification serves as a guarantee of interoperability between wireless devices from different vendors.

#### ■ Supports outdoor usage

The product can be used outdoors as it utilizes the 2.4GHz frequency range. Furthermore, it requires no licensing application as the adapter complies with ARIB STD-T66 (Low Power Data Communication System standard).

#### ■ Highly sensitive Diversity Antenna

The integrated diversity antenna maintains high quality data transfer during wireless communication.

#### ■ Supports Roaming

The product supports Roaming, an advanced technology which automatically selects (and connects to) the most appropriate access point while the user remains online and moves between multiple AP's. This way, the adapter achieves a seamless

wireless LAN environment.

#### ■ Supports multiple communication modes

In addition to Ad Hoc mode (802.11 Ad Hoc) for direct wireless communication between wireless devices, the product supports Infrastructure mode in which wireless communication is performed via access points (AP).

#### ■ Robust security features

The product utilizes 64/128bit WEP (Wired Equivalent Privacy) to encrypt communication data, making it impossible to decipher should someone intercept the data by any chance.

### Specification

Model Number	GW-NS54GM
Interface	PC Card Standard CardBus(Typell)
Standards Conformance	IEEE802.11/802.11b/802.11g
Frequency Range	2400-2497MHz(Japan Band)2400-2483.5(North America, Europe Band)2455-2475MHz(Spand Band) 2446.5-2483.5MHz(France Band)
Number of Channels	13(Japan) 13(Europe) 11(North America)
Access Methods	Infrastructure Mode, Ad Hoc Mode, Roaming
Data Transfer Rate	IEEE802.11b:1/2/5.5/11Mbps (auto sensing) IEEE802.11g:6/9/12/18/24/36/48/54Mbps (auto sensing)
Antenna Type	Built-in diversity antenna
Data Transfer Method	OFDM (Orthogonal Frequency Division Multiplexing) DS-SS(Direct Sequence Spread Spectrum)
Modulation Method	802.11b:DBPSK(1Mbps),DQPSK(2Mbps),CCK(5.5/11Mbps) 802.11g:BPSK(6/9Mbps),QPSK(12/18Mbps), 16-QAM(24/36Mbps),64QAM(48/54Mbps)
LED Indicators	Power,WLAN
Security Feature	64/128/256 bit WEP( Encryption method:TKIP/AES , Authentication method IEEE802.1x/PSK), WPA
Configuration Interface	Supplied configuration utility (dedicated to the product)
Supported Platforms	IBM PC/AT compatible with PC card slot supporting CardBus
Supported OSES	Windows 98SE/Me/2000/XP
Operating Voltage	3.3V

<b>Dimensions(W x H x D)</b>	54(W) x 6.5(H) x 119(D)mm
<b>Weight</b>	40g
<b>Operating Temperature</b>	0 to 55 degrees Celsius
<b>Operating Humidity</b>	35 to 85% (non-condensing)
<b>EMI</b>	FCC, CE, VCCI, DGT, BSMI, iDA, TELEC
<b>Warranty Period</b>	1 Year
<b>Package Contents</b>	GW-NS54GM,User's Manual/Driver/Utility CD-ROM

\*In order to use WPA, OS of a client needs to supports to 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 Comm. Range (*1)	Examples
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

▶ Connection Sample

