



54Mbps Wireless LAN Access Point
*Road to
Lanner
Wave!!!* **GW-AP540a**

Windows98

Windows98SE

WindowsMe

Windows2000

WindowsXP

CATVADSL Support

Feature

Fully compliant with IEEE802.11a, the GW-AP540a enables 54Mbps high-speed wireless communication to implement stress-free networking in broadband environments.

■ Fully Complies with IEEE802.11a

The GW-AP540a complies with the wireless standard IEEE802.11a to support a maximum wireless data transfer rate of 54Mbps that is nearly five times faster than the average data rate of IEEE802.11b products. Thanks to the fast connectivity, the access point easily accommodates transmission of high-volume multimedia data such as video and sound.

■ Utilizes the Radio-Interference-Free 5GHz Range

The product utilizes the 5GHz frequency range for wireless communication. While the 2.5GHz range is used by both IEEE802.11b and home electric appliances such as microwave and thus radio interference might occur between IEEE802.11b products and home appliances, the IEEE802.11a standard utilizes the 5GHz range to enable interference-free, clear wireless data communication. Since the GW-AP540a does not interfere with operation of IEEE802.11b products, it can co-exist with any existing IEEE802.11b-based wireless LAN.

■ Robust Security Features

Its MAC address filtering function blocks any access from client PC's other than those already on the internal access permission list to guard the system against unauthorized accesses. The product also uses WEP (Wired Equivalent Privacy) to encrypt communication data, making it impossible to decipher should someone intercept the data by any chance. The GW-AP540a supports 64/128/152bit WEP and converts data signals to more than one trillion patterns.

■ Supports SNMP

The product supports SNMP, the protocol used to a network management system in TCP/IP networks. Network management is made easy with SNMP in networking environments that consist of both wired and wireless segments.

■ Supports Configuration via a Web Browser

The configuration parameters of wireless LAN can be adjusted through an ordinary Web browser. Using the graphical configuration interface, even a beginner can easily configure parameters for wireless LAN.

■ Supports Roaming

The access point 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. With the GW-AP540a, annoying line disconnections, readjustments and reconnections are all history.

■ Noise-Resistant OFDM Modulation Scheme

The product employs Orthogonal frequency-division multiplexing (OFDM) as its wireless modulation method. Thanks to its high data transfer capacity per frequency range and strong resistance to multi-path, OFDM facilitates reliable and sound data communication.

■ Provides Connectivity to the Existing Wired LAN

Since the access point is equipped with a 10BASE-T/100BASE-TX interface, the user can easily add a wireless segment to the existing wired local network.

■ Provides Multi-Channel Support

The product supports up to 4 channels. Unnecessary wireless traffic is eliminated as a unique channel is automatically assigned to each access point. In this manner, the GW-AP540a reduces network load and improves data transfer speed.

Specifications

Product Model Number		GW-AP540a
Wireless Networking	Standards Conformance	IEEE802.11, IEEE802.11a
	Data Transfer Rate	18m(54Mbps automatic detection) 25m(48Mbps automatic detection) 30m(36Mbps automatic detection) 35m(24Mbps automatic detection) 40m(18Mbps automatic detection) 45m(12Mbps automatic detection) 48m(9Mbps automatic detection) 50m(6Mbps automatic detection)
	Frequency Range	5GHz range (5,150 - 5,250MHz)(Japan Band)
	Channels	4 channels(Japan)
	Communication Range	Line-of-sight distance: 100m Comm. Range at 54Mbps: 10m *May vary with different environmental conditions

Wireless Networking	Antenna Type	Omni Antenna
	Access Methods	Infrastructure modes
	Modulation Type	Orthogonal frequency-division multiplexing (OFDM)
	Security Features	MAC Address Filtering, WEP(64bit/128bit/152bit)
Wired Networking	Standards Conformance	IEEE802.3(10BASE-T), IEEE802.3u(100BASE-TX), Full/Half Duplex
	Ports	10/100BASE-TX Port x 1 Port (RJ-45)
	Supported Cables	UTP/STP Cables 100Mbps: Category 5 or greater 10Mbps: Category 3 or greater
Configuration Interface		Proprietary software (supplied), Web browser, SNMP
LED Indicators		Three Status LED's (Ready, LAN, WLAN)
Supported Platforms		IBM PC/AT Compatible
Supported OSes		Windows98/98SE/Me/XP/Windows2000
Operating Voltage		3.3vDC
Power Consumption		4A
Power Consumption		8W
Dimensions		205(W) x 136(H) x 40(D)mm
Weight		280g
Operating Temperatures		0 -50 degrees Celsius
Operating Humidities		5 -95% (non-condensing)
EMI		FCCI Class B,VCCI Class B
Package Contents		GW-AP540a, User's Manual, AC Adapter, Driver Utility CD-ROM, Metal Fittings for Wall-Mounting

Material of obstacle	Influence upon Transfer Distance (The large number means that it is more obstructive material.)	Specific Example
Air	X	-
Wooden	XX	Wooden Partition
Gypsum	XX	Partition wall

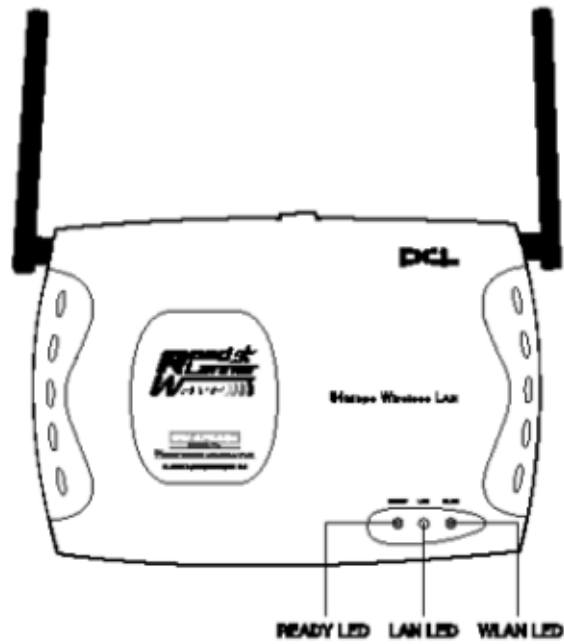
Composite Material	XX	Plywood Partition
Asbestos	XX	Ceiling
Glass	XX	Windowpane, Wall
Water	XXX	Wet Wood
Brick	XXX	Wall
Marble	XXXX	Wall
Cement Concrete	XXXX	Floor, Wall
Bulletproof Glass	XXXX	Sentinel Cabin
Iron	XXXXX	Partition, Reinforced Concrete Wall

*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.

*The product is incompatible with IEEE802.11b wireless LAN devices as it utilizes a frequency range that is not supported by IEEE802.11b.

*In Japan, the outdoor use of the 5.2GHz frequency range utilized by the product is prohibited by Radio Law. Do not use the product outdoors.

▼ Product view



GW-AP540a Front View