

## GW-AP11X 11Mbps Wireless LAN 2WAY Access Point



### ► Feature

The GW-AP11X is an IEEE802.11b compliant wireless access point that supports four operation modes. The access point supports 1)access point mode, 2)wireless LAN Converter mode, 3)repeater mode and 4)bridge mode (for communication between access points) to let you create a highly flexible wireless LAN environment.

#### ■ The four operation modes enable the creation of a highly flexible wireless LAN

The GW-AP11X supports the following four operation modes. Each mode may be configured via the product's setup screen on a standard Web browser.

##### <Access Point>

###### -Wireless LAN Access Point Mode

The product is connected to an existing wired (fixed line) LAN, and it serves as an ordinary access point that communicates with wireless LAN client devices. This mode may be used to smoothly expand an existing wired LAN to a network that supports both wired and wireless clients.

###### -Repeater Mode

This mode is used to relay signals between wireless LAN's. Enable this mode on the GW-AP11X to overcome degradation of wireless transmission due to obstacles and distance between access points or wireless LAN clients.

###### -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-AP11X may communicate with wired LAN's attached to other units of GW-AP11X. This mode requires a unit of GW-AP11X serving as a "master unit" that is set to access point mode.

\* Bridge Mode (inter-APs communication) and Repeater Mode are supported only between the GW-AP11X units. The connection in Repeater Mode and Bridge Mode are available with up to two units, (the base unit included).

### <Wireless LAN Converter>

-Wireless LAN Converter Mode

In this mode, a non-PC digital device (ex. digital AV equipment, game device, etc) may serve as a network client as long as the device is equipped with a LAN port. In this manner, wired LAN units may be easily added to a wireless LAN via hardware.

\* Only Infrastructure Mode will be available if the product is used as a wireless LAN Converter.

#### ■ Wi-Fi Certified.

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

#### ■ Reliable security features

The product supports 64/128bit WEP (Wired Equivalent Privacy), along with MAC address filtering function. In the wireless LAN environment, ESS-ID is broadcasted periodically as beacon, which brings about the risk of being detected by neighboring PCs.

The "Hide ESS-ID" function of GW-AP11X makes the Access Point invisible to other wireless LAN devices, protecting it from an unauthorized access.

#### ■ 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. . Since wireless LAN devices supporting this feature neither require re-configuration or reconnection nor suffer disconnection while moving, the devices allow the users to move freely while they are online.

#### ■ 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

#### ■ Provides Multi-Channel Support

The product supports up to 14 channels. When the channels are configured so that there is no bandwidth overlap between access points, the product avoids radio interference between adjacent groups and even distributes wireless traffic. In this manner, the GW-AP11X reduces network load and improves data transfer speed.

## ▸ Specification

Product Model Number		Access Point
		GW-AP11X
Wireless	Standards Conformance	ARIB(Japan) /FCC(North America) /ETSI (Europe)
		IEEE802.11,IEEE802.11b
	Data Transfer Rate	11/5.5/2/1Mbps auto detection

Wireless	Frequency Range	2400-2497MHz(Japan Band)2400-2483.5(North America, Europe Band)2455-2475MHz(Spand Band) 2446.5-2483.5MHz(France Band)
	Channels	14(Japan) 13(Europe) 11(North America)
	Data Transfer Mode	Direct Sequence Spread Spectrum (DS-SS)
	Access Modes	Access Point Mode/ Repeater Mode/Bridge Mode/Wireless LAN Converter Mode
	Communication Range	Indoor: 25 to 55m, Outdoor: 180 to 550m *Line-of-sight distance *May vary with actual environmental conditions
	Antenna Type	Diversity Antenna
	Modulation Type	CCK:11Mbps, 5.5Mbps, DQPSK:2Mbps DBPSK:1Mbps
Security Features	MAC Address Filtering, WEP(64bit/128bit), ESS-ID Stealth	
Wired	Standards Conformance	IEEE802.3(10BASE-T), IEEE802.3u(100BASE-TX)
	Number of ports	10/100BASE-TX x 1 port (RJ-45 UTP/STP)
	Data Transfer Rate	10/100Mbps
Supported Network Cables	10BASE-T/100BASE-TX, Category 3/4/5 twisted-pair cable (100m)	
Configuration Interface	Standard Web Browser	
LED Indicators	Wireless, LAN, Power	
Supported Platforms	IBM PC/AT compatible	
Supported OSes	Windows 98/98SE/Me/2000/XP	
Power Consumption	3W maximum	
Dimensions	108(W) x 30(H) x 137(D)mm	
Weight	210g	
Operating Temperature	0 to 40 degrees Celsius	
Operating Humidity	35 to 80% (non-condensing)	
EMI	CE, FCC Class B, VCCI Class B	
Warranty Period	1 year	
Package Contents	GW-AP11X, AC adapter, LAN cable (1m) and user's manual	

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	**	Wooren 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	*****	Iron partition materials, reinforced concrete walls

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

▶ **Product View**

