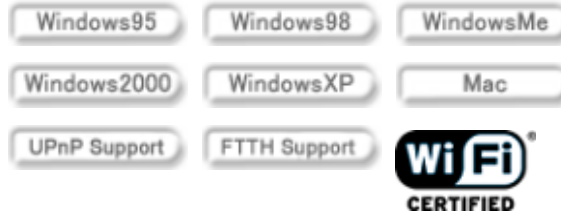




IEEE802.11g 4Port Wireless Broadband Router
Roadrunner **BLW-04G**



▶ Feature

Besides the basic broadband router function, the BLW-04G incorporates access point function compliant with the latest wireless LAN standards IEEE802.11g. It provides high-speed 54Mbps wireless LAN capabilities, while maintaining full compatibility with the mainstream IEEE803.11b wireless LAN products, thereby enabling easy introduction to existing WLAN environments.

IEEE802.11g is currently a draft standard. After the same standard has been formally ratified, the BLW-04G will also support the official version of the standard via firmware update.

■ **IEEE802.11g wireless LAN access point function**

The wireless access point function conforms to the IEEE802.11g standard, which offers a maximum 54Mbps data transmission rate in the same 2.4GHz band used for 802.11b. This allows to fearlessly utilize the high-speed broadband network, like FTTH.

■ **Interoperability with existing wireless LAN**

Interoperability with currently the most widespread IEEE802.11b products is fully maintained. This enables easy upgrade to the high-speed data communication environment, while allowing to utilize the existing WLAN systems.

■ **Concurrent Internet Access from multiple clients**

NAPT (NAT/IP masquerade) feature enables simultaneous access of multiple computers to the Internet by translating multiple local IP addresses to one public IP address.

■ **DHCP**

The BLW-04G supports the DHCP Server/Client function. IP addresses are acquired from the WAN's DHCP server and assigned automatically to each client connected to the LAN's port.

■ **PPPoE Connectivity**

Besides the general Ethernet (Static/DHCP) connection, the BLW-04G supports Point to Point Protocol over Ethernet (PPPoE) adopted by Flet's ADSL service. With the router's embedded PPPoE client function, there is no need to install software on each client computer connected to the product.

■ **UPnP (Universal Plug and Play)**

UPnP provides straightforward installation and setup of network applications. The BLW-04G supports such UPnP-aware applications as Windows Messenger.

* Supports [Phone call] function.

■ Network games and server exposure

A virtual computer (DMZ host) providing static IP masquerade and a local server (port forwarding) features allow the NAT disabled network games or servers to be exposed to the internet.

* Please notice that depending on network software, this feature may be unavailable even when Virtual computer/ Local server function is enabled.

■ VPN Pass -Through

The BLW-04G can pass through packets that are encoded between LAN and WAN via a VPN gateway device. It supports the IPsec/PPTP VPN protocols and enables the building of a router-based VPN network.

■ LAN access control

The BLW-04G is capable of controlling access from LAN to the Internet. The following access settings can be performed on each computer connected to LAN.

(1) Access control by the source IP address

(2) Access Control by the MAC address of the LAN terminal

(3) Access Control by the TCP/UDP protocol and port number (range specification available)

■ Dynamic DNS Service

The BLW-04G supports Dynamic DNS service provided by LLC. Setting the user name, password and the domain name registered at dyndns.org to this product enables an automatic update of the registered information.

■ Built-in 4-port Switch automatically detects the cable type

The Built-in 4-port 10/100BASE Autonegotiation Switch provides connection to network devices on LAN. The Auto MDI/MDX function automatically detects the straight and crossing cable types, allowing the user to directly connect the computer to the router or perform the HUB cascading without worrying about the cable type.

■ Configuration via a WWW browser

The BLW-04G is easily configurable through a web browser. The setting screen is protected by a password ensuring the full security.

■ Firmware upgrade via the WWW browser configuration screen

Function settings are stored on the built-in flash memory. New firmware versions can be downloaded from the PCI's home page (<http://www.planex.net>) and an upgrade is available via the WWW setting screen. Firmware upgrade requires no special utility to be installed on the computer, and it is supported

by Windows, as well as other commonly used operating systems such as MacOS or Linux.

■ **Throughput**

The throughput value of 38Mbps is the measurement value by Smartbits between cable LAN-WAN, the measurement value of the FTP is about 26Mbps.

And, the FTP measurement was executed in the following environment.

< measurement environment >

When the FTP clients (on LAN) acquires 50Mbyte from the FTP Server (WAN side by the router), throughput value will acclaim

All the settings of the router are the same as the factory shipment.

WAN side IP address is acquired from the DHCP server, and NAT is effective.

Server:P4 1.8GHz(Turbo Linux 7.0) ProFTPD 1.2.1 is used.

Client:P4 1.8GHz(WindowsXP) The ftp command is used.in DOS prompt

Each average ten times is assumed to be a result.

BLW-04G

Down 26.57 Mbps Up 22.23Mbps

The real system requirements does not guarantee the throughput value

▶ **Specification**

Wired Networking	
Model Number	BLW-04G
Standards Conformance	LAN:IEEE802.3 10BASE-T,IEEE802.3u 100BASE-TX WAN:IEEE802.3 10BASE-T,IEEE802.3u 100BASE-TX
Data Transfer Speed	10/100Mbps(Auto-negotiation)
Network Port Configuration	WAN Port 10/100BASE-TX Auto-Negotiation Port x 1(RJ-45 connector) Auto MDI/MDI-X
	LAN Ports 10/100BASE-TX Auto-Negotiation Port x 1(RJ-45 connector) Auto MDI/MDI-X
Supported WAN Lines	ADSL,CATV,FTTH
Supported Protocol	IP
Address Translation	NAT/IP masquerading
DHCP Server	Supports up to 253 addresses (LAN ports only, can be disabled)
DHCP Client	Acquires an IP address from ISP (WAN port only, can be disabled)

PPPoE	Supports 1 session
	PPPoE Service-on-Demand, Idle Connection Monitoring/Automatic Disconnection
Routing Protocols	Static Routing, Dynamic Routing (RIP v1/v2)
Local Server	Forwards packets to a specific PC on the LAN per TCP/ UDP port
Virtual Computer (DMZ)	Forwards packets from WAN port to a specific PC on the LAN
VPN Pass Through	IPsec/PPTP
Packet Filtering (LAN to WAN)	Access control by: IP Address MAC Address Protocol/Port number (can be specified)
Configuration Interface	Web browser
Log Management	Supported log Communication
System Upgrade	Upgradable Flash ROM (upgraded via a Web browser)
LED	[POWER] [STATUS] [DMZ] WLAN [act] [Link] WAN [100M] [FDX/Col.] [Link/act] LAN [100M] [FDX/Col.] [Link/act]
Dimensions/Weight	180(W) x 150(H) x 29.3(D)mm/400g
Operating Temperature	0-40degrees Celsius
Operating Humidity	35-80%(non-condensing)
Maximum Power Consumption	10W Max
OSes	For Ethernet (Wired) Communication: -Windows 95/98/Me/2000/XP PC equipped with an Ethernet (RJ-45) port -Computer equipped with an Ethernet (RJ-45) port that runs a TCP/IP compliant OS (Mac OS , UNIX OSes, etc.) For Wireless Communication -Windows 95(*)/98/Me/2000/XP PC equipped with a wireless LAN card or wireless LAN communication function that complies with IEEE802.11/IEEE802.11b
Required Network Cables	Twisted-pair cable Required quantity: the number of PC's attached to the product

Supported ADSL/Cable Modem	External ADSL modem with an RJ-45 (LAN) port External cable modem with an RJ-45 (LAN) port
IME	FCC Class b, CE, VCCI
Package Contents	BLW-04G, vertical stand, AC adapter, short cord x 1, User's Manual, twisted-pair cable (straight, 1m) x 1

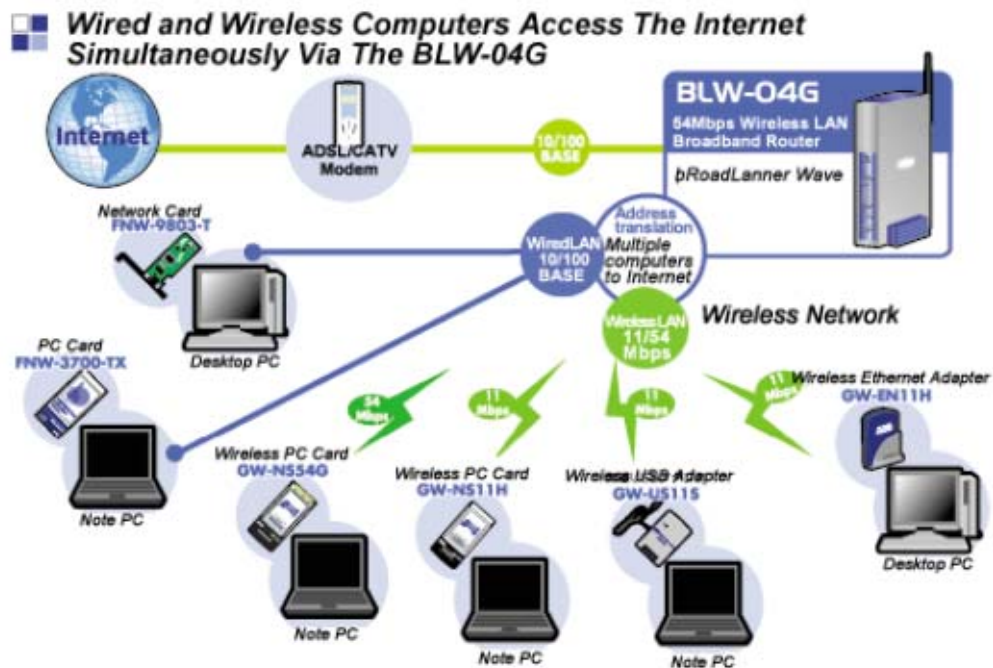
Wireless Access Point Networking	
Standards Conformance	IEEE802.11, IEEE802.11b, IEEE802.11g(draft), ARIB STD-33A/STD-66
Security Feature	ESS-ID, WEP(64bit/128it), MAC Address Filtering
Frequency Range	IEEE802.11h: 2.4-2.497GHz IEEE802.11g: 2.4-2.4835GHz
Channels	13 Channels
Transmission Method	IEEE802.11b: DS-SS IEEE802.11g: OFDM
Antenna Type	Dipole Antenna
Communication Range	Max 300 *May vary with different environmental conditions
Data Transfer Speed	IEEE802.11b: 11/5.5/2/1Mbps IEEE802.11g: 54/48/36/24/18/12/9/6Mbps

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.

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

▼ Connection Sample



▼ Product view

