



4Port CATV/ADSL Broadband Router
 **BRL-04AR**

Windows95

Windows98

WindowsMe

Windows2000

WindowsXP

Mac

UPnP Support

FTTH Support

▶ Feature

Besides the basic broadband router function, the BRL-04AR supports UPnP (Universal Plug and Play) and VPN Packet Pass-Through functions, as well as Dynamic DNS services. All these features allow even an inexperienced broadband networking user to easily introduce this low-price product.

■ **Throughput**

A throughput of about 90Mbps has been achieved in the following measurement environment:

<Measurement Method>

The throughput indicates the speed at which a 50MB file was sent or received from an FTP server on the WAN side to an FTP client on the LAN side via a router. As for router configuration, its factory default settings are used except for the IP of the WAN port (that was fixed to a specific IP for the purpose of this test). NAT was enabled.

<Measurement Environment>

BRL-04AR F/W v01.027

- FTP Server: Intel Pentium4 1.8GHz 256MB(Turbo Linux 7.0) / ProFTPD 1.2.1 was used

- FTP Client: Intel Pentium4 1.8GHz 256MB(Windows XP) / The ftp command in the DOS prompt window was used

The file was sent and received ten times each, and its average speed is treated as throughput.

Downstream throughput: 90.90Mbps

Upstream throughput : 80.40Mbps

* The throughput values above do not represent guaranteed performance in actual product usage.

■ **Internet Sharing Between Multiple PCs**

The NATP(NAT/IP masquerade) feature allows one global IP address to be shared by multiple local IP addresses, enabling simultaneous Internet access of multiple PCs.

■ **DHCP Feature**

The BRL-04AR is equipped with DHCP Server/Client feature and thus it automatically 1)obtains an IP address from a DHCP server on the WAN side and 2)allocates an IP address to each client connected

to its LAN ports. The product also supports manual IP configuration.

■ **PPPoE(Point to Point Protocol over Ethernet) Connectivity**

In addition to the common Ethernet (static/DHCP) connection, the BRL-04AR supports Point to Point Protocol over Ethernet (PPPoE).

-No PPPoE software required

Since the BRL-04AR provides PPPoE client function by itself, there is no need to install a separate PPPoE program to each client PC.

-Internet Access of Multiple Clients at a time

The NAT/IP masquerade (NAPT) feature allows multiple computers to access the Internet simultaneously using just one PPPoE account.

-Automatic Connection/Disconnection

The PPPoE Service On Demand feature and Idle Access Monitoring/ Automatic Disconnection feature allow users to access the Internet as if they were using a leased line - the users are no longer required to manually connect to or disconnect from the Internet.

■ **Local Server and Virtual Computer Functions enable Access from the WAN Side**

Usually, access from the Internet (WAN) to the LAN is disabled as long as NAT/IP masquerading is in use. The Local Server and Virtual Computer functions of the BRL-04AR enable incoming access without compromising NAT/IP masquerading.

This feature permits users on the Internet to access a specific server connected to a LAN port. A server configured with private IP address can be assigned to each TCP/UDP port

Also called DMZ (Demilitarized Zone), this function allows users on the Internet to access PCs on the internal LAN. When Virtual Computer function is enabled, all unknown packets sent to the WAN port IP address of the BRL-04AR will be forwarded to the PC configured as Virtual Computer.

■ **VPN Packet Pass-Through**

The product can pass through packets that are encoded between LAN and WAN via a VPN gateway device. The BRL-04AR supports three VPN protocols (IPsec/PPTP/L2TP), and enables the construction of a router-based VPN network.

■ **Supports Dynamic DNS services**

The BRL-04AR supports Dynamic DNS Network Services provided by LLC. Simply enter the user name, password and domain name registered at dyndns.org in the product setting screen, and it will automatically update the registered information.

■ **Supports UPnP (Universal Plug and Play)**

The UPnP feature of BRL-04AR eases the configuration tasks of network applications. The following functions of Windows Messenger (a UPnP compliant application) are supported by BRL-04AR:

* The "Place Call" function is not supported.

■ **Controls access from the LAN side**

The BRL-04AR is capable of controlling access to the Internet from the LAN side. Please note that in the factory setting the filtering groups are not configured.

Filtering parameters can be defined per protocol/port number (LAN-to-WAN, outgoing direction)

■ **On-board 4-port Switch automatically detects the two cable types**

An internal 4-port 10/100BASE Auto-Negotiation Switch provides connection to network devices on the LAN side. Since its Auto-MDI/MDX function automatically detects the straight and crossover cable types, the user can connect up to four PCs directly to the switch without worrying about the cable type differences.

■ **Configuration via a WEB browser**

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

Note: ISP's may place limitations on the use of routers like this product or on access to the Internet from multiple users. Please be sure to verify the service agreement provided by your ISP.

* bRoadLanner series products are not dial-up routers.

► **Specification**

Model Number		BRL-04AR
Standards Conformance		LAN : IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x WAN : IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x
Data Transfer Speed		10/100Mbps (Auto-Negotiation)
Network Port Configuration	WAN port	10/100BASE-TX Auto-Negotiation Port x 1 (RJ-45 connector) *AutoMDI/MDI Supported
	LAN ports	10/100BASE-TX Auto-Negotiation Port x 4 (RJ-45 connectors) *AutoMDI/MDI support on all ports
Supported WAN Lines		ADSL/SDSL/CATV/FTTH/leased lines, etc.
Supported Network Cables		10BASE-T Category 3 (or greater) twisted-pair cable (100m) 100BASE-TX Category 5 (or greater) twisted-pair cable (100m)
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)
PPPoE	Supports 1 session, PPPoE Service-on-Demand, Idle Connection Monitoring/Automatic Disconnection, unnumbered connection, Keep Alive
Routing Protocols	Static Routing
VPN Pass Through	IP sec/PPTP/L2TP
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
Packet Filtering	Filtering per protocol/port number (LAN-to-WAN, outgoing direction)
Configuration Interface	Web browser
System Upgrade	Upgradable Flash ROM
LED Indicators	Power, Status(Red), WAN 100M(Green), LAN 100M(Yellow)
Power Input	12VDC, 1A
Power Consumption	7W max
Dimensions	161.5(W) x 35(H) x 101(D)mm
Weight (main unit only)	224g
Operating Temperature	0 to 40 degrees Celsius
Operating Humidity	35 to 70%(non-condensing)
Supported OSes	<p>Windows 95/98/Me/2000/XP PC equipped with an Ethernet (RJ-45) port</p> <p>Computer equipped with an Ethernet (RJ-45) port that runs a TCP/IP compliant OS (Mac OS , UNIX OSes, etc.)</p>
Required Network Cables	<p>The product supports the following Network Cables</p> <p>Twisted-pair cable (Required quantity: the number of PCs attached to the product)</p>
ADSL/Cable Modem	<p>External ADSL modem with an RJ-45(LAN) port</p> <p>Exenal cable modem with an RJ-45(LAN) port</p>
EMI	VCCI Class A, FCC Class A, CE

Warranty	1 Year
Package Contents	BRL-04AR, AC adapte, User's manual, twisted-pair cable (straight, 1m)

▼ Connection Sample

