



Broadband Router with CATV/ADSL support
Roadrunner BRL-04EX



▶ Feature

Value priced yet high performance: the BRL-04EX supports effective throughput approaching 20Mbps and offers various advanced functions including Multi-NAT and unauthorized access detection.

■ **Achieves Effective Throughput of up to 19.7Mbps (Wired Networking)**

A 50Mbps file was transferred through FTP (GET) using the BRL-04EX, and the data transfer rate was measured. The test environment is as follows:

*Server

CPU: Pentium4 1.8AGHz, OS: Turbo Linux Server 7

*Client

CPU: Pentium4 1.8AGHz, OS: Windows XP Pro

Test Results (Data Transfer Rate):

- BRL-04EX: 19.7Mbps

- Low-priced router from Vendor M: 7.6Mbps

Attention: The 30Mbps on the product box is meant when it's massured with NAPT enabled.

■ **Internet Sharing between Multiple PC's**

Its NAPT(NAT/IP masquerading) feature allows one global IP address to be shared by multiple local IP addresses, enabling simultaneous Internet access between multiple PC's.

■ **Supports DHCP**

The BRL-04EX is equipped with DHCP Server/Client feature. Hence it automatically 1)obtains an IP address from a DHCP server on the WAN side and 2)allocates an IP address to each client attached to its LAN ports. The product also supports manual IP configuration.

■ **Enables Access from the WAN side through Multi-NAT**

The BRL-04EX supports Multi-NAT, a function that maps up to eight global IP addresses provided from an ISP to multiple private IP addresses (nodes) on the LAN. In services that provide multiple global IP addresses, this feature allows the user to bring multiple servers online (make them globally accessible through the Internet).

■ PPPoE Connectivity

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

- Requires no PPPoE software
Since the BRL-04EX provides PPPoE client function by itself, there is no need to install a separate PPPoE program to each client PC.
- Enables Concurrent Internet Access from Multiple Clients
Its NAT/IP masquerading (NAPT) feature allows multiple computers to access the Internet simultaneously using just one PPPoE account.
- Automatic Connection/Disconnection
Its PPPoE Service On Demand feature and Idle Access Monitoring/ Automatic Disconnection feature allow its 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

■ Enables Access from the WAN Side through Local Server and Virtual Computer Functions

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-04EX enables incoming access without compromising NAT/IP masquerading.

<Local Server (Port Forwarding)>

This feature permits users on the Internet to access a specific server attached to a LAN port. A unique computer on the private network can be assigned to each TCP/UDP number, and up to twenty PC's can be configured as Local Servers.

<Virtual Computer>

Also called DMZ (DeMilitarized Zone), this function allows users on the Internet to access PC's on the internal LAN. When Virtual Computer is enabled, all unknown packets sent to the IP address of the WAN port of the BRL-04EX will be forwarded to PC's configured as Virtual Computers. The product supports up to eight such Virtual Computers.

■ Firewall Features

Since an IP address on the WAN port is shared between multiple PC's, it is impossible for anyone on the Internet to identify the IP address of each client attached to the LAN ports. Furthermore, the user can restrict communication from the LAN side to the WAN side by configuring packet filtering rules. Not only that, the BRL-04EX automatically detects any incoming unauthorized access from the Internet and displays its data on its Web-based configuration screen.

*Supported filtering rules: LAN-to-WAN, outgoing direction, supports up to six rules

Supports access control by 1) IP address (source), 2) port number (service at the source), 3) protocol (TCP or UDP), 4) day of the week and 5) time.

*Detectable types of unauthorized access:

[IP Spoofing][TCP Null Scan][TCP SYN Flooding][Snork Attack][UDP Port Loopback]
[Smurf Attack][Zero Length IP][Ping of Death]

■ Web-Based Configuration

The internal parameters and operation settings of the BRL-04EX can be easily configured via a WWW browser. The password-protected configuration screen prevents unauthorized access from outsiders.

■ Firmware Upgrade

All system functions of the BRL-04EX are stored in the on-board flash memory in the form of firmware (software). Periodically download new firmware from our web site to always keep the product's functions up-to-date.

Note: ISP's may place limitations on the use of routers like this product or 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-04EX
Network Port Configuration	WAN Port	IEEE802.3(10BASE-T) IEEE802.3u(100BASE-TX)x 1
	LAN Ports	IEEE802.3(10BASE-T) IEEE802.3u(100BASE-TX)x 4
Supported WAN Lines		ADSL/SDSL/CATV/leased lines, etc.
Supported Network Cables		10BASE-T Category 3 (or greater) twisted-pair cable (Max. length = 100m) 100BASE-TX Category 5 (or greater) twisted-pair cable (Max. length = 100m)
Supported Protocol		IP
Address Translation		NAT/IP Masquerading
Multi-NAT		Supports up to 8 global IP addresses

DHCP Server	Supports up to 253 addresses (LAN ports only, can be disabled)
DHCP Client	Obtains an IP address from an ISP (WAN port only, can be disabled)
DNS Relay	Supported
PPPoE	Supports 1 session PPPoE, Service-on-Demand, Idle Connection Monitoring/Automatic Disconnection
Local Server	Forwards packets to a specific PC on the LAN per TCP/ UDP port (supports up to 20 entries)
Virtual Computer (DMZ)	Forwards packets from WAN port to a specific PC on the LAN (supports up to 8 entries)
Filtering (outgoing direction)	IP protocol (per TCP/UDP port)/ IP address (source)/IP Port Filter (configurable filter range)/ access control by day of the week or time (supports up to 6 settings)
Configuration Interface	Web browser
System Upgrade	Available thourhg upgrading Flash ROM
LED Indicators	POWER ,WAN ,LAN Link/Act ,LAN 100M
Power Input	DC6V ,1A
Power Consumption	6W max.
Dimensions	131(W) x 32(H) x 86(D)mm
Weight (main body)	670g
Operating Temperatures	0 - 40 degrees Celsius
Operating Humidities	35 - 85 %
Supported Platforms	-Windows 95/98/Me/2000/XP PC equipped with an Ethernet (RJ-45) port - Computer equipped with an Ethernet (RJ-45) port that supports OSes with TCP/IP support (Mac OS , UNIX, etc.)
Required Network Equipment	LAN cables
Supported ADSL/Cable Modems	<ul style="list-style-type: none"> • External ADSL modem with an RJ-45 (LAN) port • External cable modem with an RJ-45 (LAN) port
EMI	VCCI Class B ,FCC Class
Package Contents	BRL-04EX, AC Adapter (with a Short Cord), User's Manual, 1m Category 5 UTP Cable

▼ Product view

