



## Broadband Router with Printserver function *Road Runner* BRL-04FXP

Windows95

Windows98

WindowsMe

Windows2000

WindowsNT

WindowsXP

Mac

### ▶ Feature

The BRL-04FXP utilizes ARM9 chip as its processor to achieve WAN-to-LAN throughput of up to 65Mbps (\*1), easily accommodating today's broadband environments that are becoming increasingly faster. Furthermore, its Multi-NAT feature couples multiple global IP addresses to end nodes (servers) to make the devices available on the Internet.

#### ■ On-board ARM chip improves throughput

The BRL-04FXP utilizes ARM9 (32bit RISC) chip as its processor to achieve throughput that is far superior to that of conventional broadband routers. As it achieves throughput reaching up to 65Mbps (\*1), the user can take full advantage of broadband services even in today's wide bandwidth environments that are becoming increasingly faster each day.

#### ■ Internet sharing between multiple PC's

Its NAT(P/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.

#### ■ 4-port Switch with automatic cable type detection function

The product provides an internal 4-port 10/100BASE auto sensing Switch as a network interface on the LAN side. Since the embedded switch supports Auto-MDI/MDIX that automatically detects both straight- and crossover cable types, the user can directly attach a PC or another hub/switch to the product without worrying about cable type differences

#### ■ Supports DHCP

The BRL-04FXP is equipped with DHCP Server/Client feature. Hence it automatically 1) obtains an IP address from the DHCP server on the WAN side and 2) allocates an IP address to each client attached to its LAN port.

#### ■ PPPoE Connectivity

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

-Requires no PPPoE software

Since the BRL-04FX 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.

#### -Session Keep-Alive

The BRL-04FX supports Session Keep Alive, an advanced feature which monitors a PPPoE connection. Whenever an ongoing session is lost, this feature automatically re-establishes it to enable true always-on connectivity even with an unstable ADSL line.

### ■ Supports network games, helps the user bring servers online

As the product provides static masquerading through its Virtual Computer and Local Server features, it can support network games that do not provide NAT support. Using the same features, you can even make your servers globally available on the Internet.

### ■ Supports Multi-NAT

The BRL-04FXP supports Multi-NAT, a function that maps up to sixteen 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).

### ■ Simple Firewall Function

Since an IP address on the WAN port is shared between multiple PC's, it is impossible for any one on the Internet to identify the IP address of each client attached to the LAN port. This mechanism makes unauthorized access from the outside (Internet) extremely difficult, and it effectively serves as a robust firewall.

### ■ Saves and loads configuration data

Its configuration settings can be saved or restored through the Web-based configuration screen.

### ■ Web-based configuration

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

### ■ Firmware upgrade via the Web-based configuration screen

All system functions of the BRL-04FXP are stored in the on-board flash memory in the form of firmware (software). Simply download the latest firmware from our web site and use the Web-based configuration screen to upgrade the firmware currently in use. This scheme requires no additional program for upgrading firmware, and supports not only Windows but also various OSes/platforms including Macintosh and Linux.

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

Product Model Number	BRL-04FXP
<b>Standards Conformance</b>	LAN Side:IEEE802.3 10BASE-T ,IEEE802.3u 100BASE-TX WAN Side:IEEE802.3 10BASE-T ,IEEE802.3u 100BASE-TX
<b>Data Transfer Rate</b>	10/100Mbps (Auto-Negotiation)
<b>Ports</b>	LAN Side: 10BASE-T/100BASE-TX RJ-45 Auto-MDI/MDX x 4 ports WAN Side: 10BASE-T/100BASE-TX RJ-45 x 1 port
<b>Supported WAN Lines</b>	ADSL, SDSL, CATV, FTTH, FTTO, Leased Line
<b>Supported Media</b>	10BASE-T Category 3 (or greater) twisted-pair cable (100m max.) 100BASE-TX Category 5 (or greater) twisted-pair cable (100m max.)
<b>Supported Protocol</b>	TCP/IP
<b>Address Translation</b>	NAT/IP Masquerading (NAPT)
<b>Multi NAT</b>	Supports up to sixteen global IP addresses
<b>DHCP Server</b>	Supports up to 253 addresses (LAN ports only, can be disabled)
<b>DHCP Client</b>	Obtains an IP from an ISP (WAN port only, can be disabled)
<b>DNS Relay</b>	Supported
<b>PPPoE</b>	Supports 1 session PPPoE, Service-on-Demand, Idle Connection Monitoring/Automatic Disconnection
<b>PPPoE Session Keep Alive</b>	Automatically re-establishes a PPPoE session when it is lost Transmission interval of PPP Echo Request and the number of confirmation trials are configurable
<b>Local Server</b>	Forwards packets to a specific PC on the LAN per TCP/ UDP port (supports up to 12 entries)
<b>Routing Protocol</b>	Static routing, 8 entries max., RIPv1
<b>Filtering</b>	MAC address/ IP address/ IP port filter (outgoing direction, supports up to 32 entries)

<b>Configuration Interface</b>	Web browser
<b>System Upgrade</b>	Available through the Web-based configuration screen
<b>LED Indicators</b>	Power, Link/Act, LAN, WAN
<b>Power Input</b>	DC 12V ,1A
<b>Power Consumption</b>	5.475W Max.
<b>Dimensions</b>	185(W) x 28(H) x 112(D)mm
<b>Weight (Main Body Only)</b>	490g
<b>Operating Temperatures</b>	0 - 90 degrees Celsius
<b>Operating Humidities</b>	35 - 85 %
<b>Supported OSes</b>	Windows 95/98/Me/NT/2000: requires a PC equipped with one Ethernet (RJ-45) port OSes supporting TCP/IP (ex. MacOS, UNIX OSes): requires a PC equipped with one Ethernet (RJ-45) port
<b>Required Network Equipment</b>	LAN cables
<b>Supported ADSL/Cable Modems</b>	External ADSL modem with an RJ-45 (LAN) port External cable modem with an RJ-45 (LAN) port
<b>EMI</b>	FCC Class B , CE Mark
<b>Package Contents</b>	BRL-04FXP, AC Adapter, Straight LAN Cable (1m) x 1, User's Manual, Quick Installation Guide

\*1 Throughput Measurement Method The figure represents data transfer rate, or the volume of data processed by the BRL-04FX in one second in a standard (non-PPPoE) connection with NAPT enabled. Ethernet frame headers, IP headers and other data are included in addition to payload (data). This is not a guaranteed performance value that can be always reproduced under the customer's environment.

\*2 ARM is a registered trademark of ARM Limited. Windows is a registered trademark of Microsoft Corporation in the U.S. Other company names, product names and service names are trademarks or registered trademarks of the respective companies.