

BRC-114IXR 4Ports Broadband Router with IXP425 Network Processor



▶ Feature

The BRC-114IXR utilizes Intel(R) IXP425 Network processor to achieve high speed routing approaching 94Mbps (WAN->LAN throughput). In addition to its basic broadband router functionality, the product supports USB2.0Port.

■ Equipped with USB2.0 port for NAS which can connect hard disk

Equipped with two USB2.0 ports, "BRC-114IXR" can install an External USB Hard drive, and corresponds to first NAS (Network attached storage) as a router. Being able to connect External USB hard drive to "BRC-114IXR" for network storage, it's possible to share file on the network through the hard disk. Moreover USB Flash Memory can also be similarly used.

■ Straightforward "live" distribution of images with a Web camera. (Scheduled for release).

The optional Web camera *1 connected to the USB port lets you experience the real-time distribution of images via the Internet. This function allows, for example, monitoring your child, or pet at home. Moreover, you can easily view the images from anywhere you are, accessing them not only through the PC, but also via the mobile phone.

* The mobile phone with a JPEG-enabled browser is required.

■ IXP425 Network Processor greatly improves throughput

Its on-board Intel IXP425 Network Processor achieves a maximum data rate of 94Mbps, a significant improvement over the average throughput of conventional broadband routers. The highly improved throughput facilitates the sending and receiving of large-volume multimedia data, allowing the user to take full advantage of broadband environments that are becoming faster at an accelerating rate.

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

■ Supports VPN Gateway

The communicated packet is encrypted by the VPN gateway function.

From the Internet public circuit, data can be kept secretly and hide etc. LAN is done through a different segment for a secure communication when is used in the data communication.

Moreover, with achieves maximum throughput of 42Mbps, processing the encryption with hardware by the IXP425 network processor at IPsec and a measurement, the highest velocity of the class have been achieved.

"BRC-114IXR" corresponds to "IPsec/PPTP" as an encryption technology.

*The BRC-114IXR implements the VPN gateway function, however, connectivity with all of the VPN devices is not guaranteed.

For setting and other details on VPN, please contact the network administrator or the network designer.

■ Supports UPnP (Universal Plug and Play)

The product's UPnP feature eases the configuration tasks of network applications used on its network. Various functions such as Windows/MSN Messenger or the UPnP application can be used.

■ PPPoE Unnumbered Connection

The product supports services that provide multiple global IP addresses. The BRL-04FM enables flexible network configuration as its IP allocation scheme is capable of directly assigning global IP to LAN clients.

■ Supports Dynamic DNS services

The BRC-114IXR 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.

■ Firewall with SPI (Stateful Packet Inspection) support

SPI verifies the consistency of packets for each communication session. Since it blocks all ports upon the completion of a session, the technology implements a truly "hole-less" firewall. Furthermore, SPI blocks communication as soon as it detects DoS (Denial of Service) attack from the Internet (WAN side). Detected attacks can be saved in a log, and the log data can be sent out in the form of syslog or E-mail.

■ It's possible to set detailed parameter in Packet filtering

IP address, protocol, port number, ICMP, and direction (IN/OUT) can be set to the filtering rule. When an annulled of this function sent illegal packet, extra traffic or setting up the public server, the permission's of the communication to a specific port becomes possible, and constructing high security on the network become possible.

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

Its 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 PC's directly to the switch or perform hub cascading without worrying about the cable type differences.

■ The port only for DMZ for the server opening to the public is installed.

Independent network segment (DMZ) which does not belong to the WAN side and LAN side, is the only port that can be composed for DMZ. If DMZ is set in public servers of Web and the FTP, the server can be prevented from being accessed LAN side even if an illegal access is received from the Internet, and a secure server can be managed.

■ Supports DHCP

The product's DHCP Server/Client feature 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.

■ PPPoE Connectivity

In addition to ordinary Ethernet (static/DHCP) connection, the product supports Point to Point Protocol over Ethernet (PPPoE). Since the BRC-114IXR provides PPPoE client function by itself, there is no need to install a separate PPPoE program to each client PC connected to the product.

-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 function and Idle Access Monitoring/ Automatic Disconnection function allow its users to access the Internet as if they were using a leased line - there is absolutely no need to manually connect to or disconnect from the Internet.

■ PPPoE Multi Session

The PPPoE protocol can be connected by dynamically switching on the Provider by changing the provider identifier of the user account. This machine can be connected with four providers or less at the same time because it corresponds to the PPPoE multi-session.

■ Web-based configuration

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

■ Firmware upgrade via the Web-based configuration screen

All system functions of the product 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. Firmware upgrade requires no special utility to be installed on terminal PC's, and it can be used with a wide range of OSes including Windows, Macintosh and Linux.

Note: Some ISP's 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		BRC-114IXR
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	WAN Port	10/100BASE-TX Auto-Negotiation x 1(RJ-45 connector)
	LAN Port	10/100BASE-TX Auto-Negotiation x 4(RJ-45 connector) *AutoMDI/MDI support on all ports
	DMZ Port	10/100BASE-TX Auto-Negotiation x 1(RJ-45 connector)
	USB Port	USB2.0 x 2(A connector Type)

Infrared rays Port	IrDA (Schedule to supports)
Supported WAN Line	ADSL/FTTH/CATV/Leased lines,etc
Network Cable	10BASE-T Category3(or greater) twisted-pair cable (100m) 100BASE-TX Category5(or greater) twisted-pair cable (100m)
Supported Protocol	IP
Address Translation	NAT/IP masquerading(NAPT)
DHCP Server	Supports up to 253 address(LAN ports only,can be disabled)
DHCP Client	Acquires an IP address from ISP (WAN port only, can be disabled)
PPPoE	Supports 4session MAX PPPoE Service-on-Demand, Idle Connection Monitoring/Automatic Disconnection, unnumbered connection, Keep Alive, unnumbered
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
Routing Protocols	Static Routing,RIP v1,RIP v2
Packet Filtering	Parameter:direction(IN/OUT) IP Address/Protocols/Number Ports/ICMP
Firewall	DoS Attack Protection(supports log output, notification via syslog/E-mail),SPI(Stateful Packet Inspection)
VPN Gateway	IPsec/PPTP
Comfiguration Interface	Web browser
Log Management	Log can be viewed via Web browser, sent to preconfigured e-mail addresses, or transmitted to a preconfigured syslog server
Firmware Upgrade	Upgrade Fkach ROM(upgraded via a Web browser)
LED	Power,Link/Act,Status,10/100M,DMZ,PPPoE,IrDA
Power Input	AC Adapter AC100V(50/60Hz)
Power Consumption	24W max
Dimensions	218(W) x 36(H) x 148(D)mm
Weight	950g
Operating Temperature	0 to 40 degrees Celsius

Operating Humidity	35 to 85%
Supported OSes	-Windows 95/98/Me/2000/XP Computer equipped with an Ethernet (RJ-45) port -Computers running TCP/IP compliant OSes (Mac OS, UNIX OSes) that are equipped with an Ethernet (RJ-45) port
Required Network Cables	Twisted-pair cable Number of cables = the number of PC's attached to the product
ADSL/Cable Modem	The product supports the following ADSL/cable modems. -External ADSL modem with an RJ-45(LAN) port -Exenal cable modem wtih an RJ-45(LAN) port
EMI	VCCI class B
Warranty	1 year
Package Contens	BRC-114IXR,AC Adapter,user's manual,UTP straight LAN(1m)