ADSL Modem / Router

Wireless ADSL Router

Powerline
ADSL Router and Adapter

Broadband Router

Security Router

VoIP ADSL Modem/Router

SHDSL Bridge / Router

iBusiness
Security Appliance

BILLION ™

BiPAC 7402(G)L

QoS | 802.11g Wireless WPA | ADSL2+

(802.11g) ADSL2+ QoS Modem/Router

Billion's BiPAC 7402(G)L series of router is perfectly designed for Home and SOHO users to enjoy smooth, secure, and express-speed Internet connection. It supports the latest ADSL2/2+ technology enabling high-speed data rate of up to 24Mbps. The powerful QoS feature integrated makes the device a perfect mate for users to benefit for traffic prioritization and bandwidth management. With 54Mbps 802.11g Access Point integrated, the model of BiPAC 7402GL brings up the mobility for Home and SOHO users to surf the net everywhere in the house or in the office.

▲ **BiPAC 7402L**

▲ **BiPAC 7402GL**

- 802.11g Wireless AP with WPA Support (BiPAC 7402GL only)
- High speed Internet Access with ADSL, ADSL2/2+
- Quality of Service for Traffic Prioritization and Bandwidth Management
- SOHO Firewall Security with DoS Prevention and SPI
- Parental Control with URL Content Filtering and Packet Filtering
- IGMP Snooping for video service
- Dynamic Domain Name System (DDNS)
- Universal Plug and Play (UPnP) compliance
- Available Syslog monitoring
- Ease of Use with Quick Installation Wizard and Auto-scan ADSL settings
- Ideal for Home and SOHO users

Benefits

Express Internet Access
The router complies with ADSL worldwide standards. It supports downstream rate up to 8Mbps with ADSL, capable of up to 12/24 Mbps with ADSL2/2+, and upstream rate up to 1 Mbps. Users enjoy not only high-speed ADSL services but also broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever.

Fast and Responsive Net Connection
Quality of Service (QoS) gives users the full control over which type of outgoing data traffic given priority by the router, ensuring important data like gaming packets, customer information, or management information move through the router at lightning speed, even under heavy load. The transmission speed can be throttled both inbound and outbound data passed through the router to ensure P2P users not to saturate uploading bandwidth, or office browsing not bring client web serving to a halt. In addition, the priority type of upload data can be changed in order to let the router sort out the actual speeds.

Firewall Security
Along with the built-in NAT natural firewall feature, the router provides advanced hacker pattern-filtering protection. It can automatically detect and block Denial of Service (DoS) attacks. The router is also built with Stateful Packet Inspection (SPI) to determine if a data packet is allowed through the firewall to the private LAN.

Mobility and Protection
(BiPAC 7402GL only)
With integrated 802.11g Wireless Access Point in BiPAC 7402GL, the device offers a quick and easy access among wired network, wireless network and broadband connection (ADSL) with single device simplicity, and as a result, extreme mobility to the users. In addition to 54 Mbps 802.11g data rate, the router also interoperates backward with existing 802.11b equipment. The Wireless Protected Access (WPA) and Wireless Encryption Protocol (WEP) supported features enhance the security level of data protection and access control via Wireless LAN.

Powering communications
with **Security**

Feature & Specification

ADSL Compliance
- Compliant with ADSL Standard
  - Full-rate ANSI T1.413 Issue 2
  - G.dmt (ITU G.992.1)
  - G.hs (ITU G.994.1)
  - ADSL over ISDN/U-R2
- Capable of ADSL2 Standard
  - G.dmt.bis (ITU G.992.3)
- Capable of ADSL2+ Standard
  - G.dmt.bisplus (ITU G.992.5)

Network Protocols and Features
- NAT, static routing and RIP-1/2
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- SNTP, DNS relay, IGMP Proxy
- POP3 (email account checking)
- IGMP Snooping for video service

Firewall
- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- Prevent DoS attacks including IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN Flooding, etc.
- Packet Filtering - port, source IP address, destination IP address, MAC address
- URL Content Filtering - string or domain name detection in URL string

Quality of Service Control
- Support DiffServ approach
- Traffic prioritization and bandwidth management based-on IP protocol, port number and address

Wireless 802.11g (BiPAC 7402GL only)
- Compliant with IEEE 802.11g and 802.11b standards
- 2.4 GHz - 2.484G Hz frequency range
- Up to 54 Mbps wireless operation rate
- 64/128 bits WEP supported for encryption
- WPA support
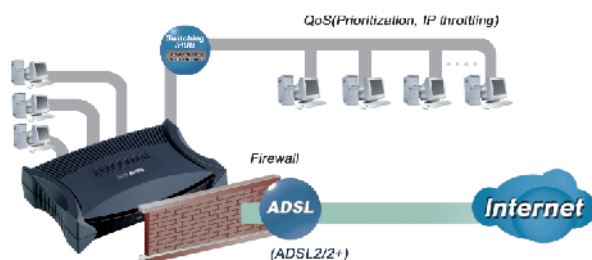
▲ Application Diagram (BiPAC 7402L)

ATM and PPP Protocols
- ATM Adaptation Layer Type 5 (AAL5)
- Multiple Protocol over AAL5 (RFC 2684, formerly RFC 1483)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- Classical IP over ATM (RFC 1577)
- MAC Encapsulated Routing (RFC 1483 MER)
- OAM F4/F5

Management
- Quick Installation Wizard and Auto-scan ADSL settings
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via Web-based GUI
- Embedded Telnet server for remote and local management
- Available Syslog monitoring
- SNMP v3, MIB-I and MIB-II support
- Support DHCP server/client/relay

Hardware Specification
Physical Interface
- WLAN: one detachable antenna (BiPAC 7402GL only)
- WAN: ADSL port
- LAN: 4-port 10/100M auto-crossover (MDI/MDI-X) Switch
- Console: PS2
- Factory default reset button
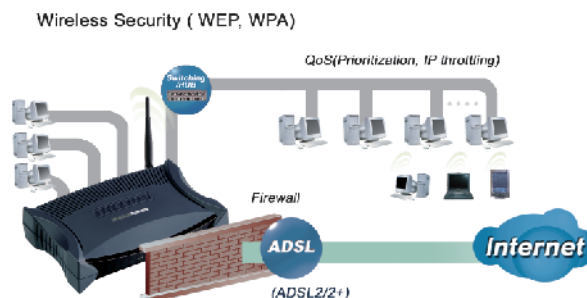- Power jack
- Power switch

Physical Specification
- Dimensions: 7.09" x 4.72" x 1.57" (180mm x 120mm x 40mm)

Power Requirement
- Input: 12V DC, 1A

Operating Environment
- Operating temperature: 0 ~ 40ºC
- Storage temperature: -20 ~ 70ºC
- Humidity: 20 ~ 95% non-condensing

▲ Application Diagram (BiPAC 7402GL)

All the specifications are subject to changes without prior notice.