

BiPAC 7202(G)

802.11g ADSL2+ Router

Billion's BiPAC 7202(G) series with 802.11g Wireless Access Point option is an all-in-one economical pack of ADSL2+ router which is perfectly designed for users to enjoy rich security, mobility, and faster speed when using ADSL Internet connection. The Router lets you access high-speed ADSL Internet connection, even faster with advanced ADSL2+ capability with downstream up to 24Mbps. Rich security features include Firewall SPI and DoS and Virtual Private Network pass-through to provide safe transmission. With the Quality of Service feature, the router device enables users to experience the benefit of smooth net connection of inbound and outbound data without concern of traffic congestion.

▲ **BiPAC 7202**▲ **BiPAC 7202G**

- Faster-speed Internet Access with ADSL, capable of ADSL2+
- Quality of Service Control for Traffic Prioritization and Bandwidth Management
- 802.11g Wireless Access Point with WPA Support (optional)
- SOHO Firewall Security with DoS Prevention and SPI
- Easy Network Management
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Support Virtual Private Network (VPN) pass-through
- Web-base Configuration, Management and Firmware Upgrade
- Ideal for Home and SOHO Users

Benefits

Express Internet Access

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

Smooth and Responsive Data Communication

Quality of Service (QoS) gives you full control over the outgoing data traffic. Priority can be given by the router to ensure important data like gaming packets, customer information, or management information move through the router at lightning speed, even under heavy load. You can also control the speed at different type of outgoing data passed through the router to ensure that users do not saturate the bandwidth and browsing activities.

Firewall Security

Along with the built-in NAT natural firewall feature, the router also provides advanced hacker pattern-filtering protection. It can automatically detect and block Denial of Service (DoS) attacks. The router is 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 7202G only)

With integrated 802.11g Wireless Access Point in the router, the device offers a quick and easy access and mobility to the users among wired network, wireless network, broadband connection (ADSL). In addition to 54 Mbps 802.11g data rate, it is also backward compatible 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.

Feature & Specification

ADSL Compliance

- Compliant with ADSL Standard
 - Full-rate ANSI T1.413 Issue 2
 - G.dmt (ITU G.992.1)
 - G.lite (ITU G.992.2)
 - 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 and IGMP proxy

Firewall & Virtual Private Network (VPN)

- 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
- Password protection for system management
- VPN pass-through

Quality of Service Control

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

Wireless 802.11g (BiPAC 7202G)

- Compliant with IEEE 802.11g and 802.11b standards
- 2.4 GHz - 2.484 GHz frequency range
- Up to 54 Mbps wireless operation rate
- 64/128 bits WEP supported for encryption
- WPA support



▲ Application Diagram (BiPAC 7202)

ATM and PPP Protocols

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

Management

- Quick Installation Wizard and Auto-scan ADSL settings
- Web-based GUI for remote and local management
- Firmware upgraded and configuration data upload and download via Web-based GUI
- Firmware upgradeable to ADSL2/ADSL2+ standards
- Embedded Telnet server for remote and local management
- Available Syslog monitoring
- Support DHCP server/client/relay
- SNMP v3, MIB-I and MIB-II support

Operating Environment

- Operating temperature: 0 ~ 40°C
- Storage temperature: -20 ~ 70°C
- Humidity: 20 ~ 95% non-condensing

Hardware Specification

Physical Interface

- WLAN: fixed antenna (BiPAC 7202G)
- LINE: ADSL port
- LAN: 4port 10/100M auto-crossover (MDI/MDI-X) switch
- Factory default reset button
- Power jack
- Power Switch

Physical Specification

- (BiPAC 7202) Dimensions: 5.20" x 3.70" x 1.38" (132mm x 94mm x 35mm)
- (BiPAC 7202G) Dimensions: 7.09" x 4.72" x 1.57" (180mm x 120mm x 40mm)

Power Requirement

- Input: 12V DC, 1A



▲ Application Diagram (BiPAC 7202G)