

BiPAC 7402G

802.11g ADSL2+ VPN Firewall Router

Billion's BiPAC 7402G - truly secure, cable-free, express-speed to enhance the productivity. BiPAC 7402G is an advanced device designed for office users to enjoy mobile, high-speed and high-level security of data communications. It supports the latest ADSL2/2+ technology enabling high-speed data rate of up to 24 Mbps. The router supports IPSec VPN protocols, allowing users to establish encrypted private connections of up to 16 tunnels over the Internet. The Quality of Service feature ensures a smooth net connection for inbound and outbound data with minimal traffic congestion. With integrated 54 Mbps 802.11g Access Point in this device, the router brings up the productivity and mobility to office users.

- High speed Internet access with ADSL2/2+; backward compatible with ADSL
- 802.11g Wireless AP with WPA-PSK/ WPA2-PSK Support
- QoS Control for Traffic prioritization and Bandwidth Management
- Secured Virtual Private Network (VPN) with powerful 3DES
- SOHO Firewall Security with DoS Prevention and SPI
- Universal Plug and Play (UPnP) compliance
- Parental Control with URL Content Filtering and Packet Filtering
- Dynamic Domain Name System (DDNS)
- Available Syslog monitoring
- Ease of Use with Quick Installation Wizard and Auto-scan ADSL settings
- Supports IPTV Application*

**▲ BiPAC 7402G**

Benefits

Express Internet Access

This router complies with worldwide ADSL standards. It supports downstream rates of up to 12/24 Mbps with ADSL2/2+, 8 Mbps with ADSL, and upstream rates of up to 1 Mbps. With this technology, users enjoy not only high-speed ADSL service but also broadband multimedia applications such as interactive gaming, video streaming and real-time audio much more quickly and easily than ever. In particular, by doubling the upstream data rate, the Annex M standard included in the BiPAC 7402GM model supports the latest ADSL2/2+ for higher upload speeds.

Fast and Responsive Net Connection

Quality of Service (QoS) gives you full control over outgoing data traffic. Priority can be assigned by the router to ensure that important data like gaming packets, customer information, or management information passes through the router at lightning speed, even under a heavy load. You can also control the speed of different types of outgoing data passing through the router to ensure that users do not saturate your bandwidth with their browsing activities.

Secured Data Communication

The router supports embedded IPSec VPN (Virtual Private Network) protocols, allowing users to establish encrypted private connections of up to 16 simultaneous tunnels over the Internet. With a built-in DES/3DES VPN accelerator, the router enhances IPSec VPN performance significantly and ensures that data is transmitted securely between two or more sites.

Mobility and Protection

With an integrated 802.11g Wireless Access Point in the router, the device offers a quick yet easily accessible and mobile to the users among wired network, wireless network, broadband connection (ADSL). In addition to having a 54 Mbps 802.11g data rate, it is also backward compatible with existing 802.11b equipments. The supported features of Wireless Protected Access (WPA-PSK/WPA2-PSK) and Wireless Encryption Protocol (WEP) enhance the security level of data protection and access control via Wireless LAN. If your network requires wider coverage, the built-in Wireless Distribution System (WDS) repeater function allows you to expand the wireless network without using any wires at all.

Robust 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. Built with Stateful Packet Inspection (SPI), the router enables users to determine whether or not a data packet is allowed to pass through the firewall to the private LAN.

Features & Specifications

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
- Compliant with ADSL2 Standard
 - G.dmt.bis (ITU G.992.3)
 - ADSL2 Annex M (ITU G.992.3 Annex M) (Available for BiPAC 7402GM model only)
- Compliant with ADSL2+ Standard
 - G.dmt.bisplus (ITU G.992.5)
 - ADSL2+ Annex M (ITU G.992.5 Annex M) (Available for BiPAC 7402GM model only)

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

Wireless 802.11g

- Compliant with IEEE 802.11g and 802.11b standards
- 2.4 GHz - 2.484GHz frequency range
- Up to 54 Mbps wireless operation rate
- 64/128 bits WEP supported for encryption
- Wireless Security with WPA-PSK/WPA2-PSK support

Hardware Specification

Physical Interface

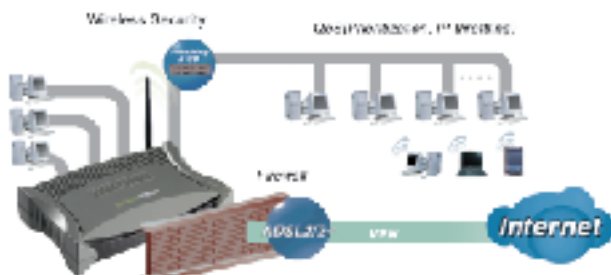
- WLAN: one detachable antenna
- WAN: ADSL port
- LAN: 4-port 10/100M auto-crossover (MDI/MDI-X) Switch
- Console: PS2
- Factory default reset button
- Power jack
- Power switch

Physical Specification

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

Power Requirement

- Input: 12V DC, 1A



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

Virtual Private Network (VPN)

- 16 IPSec VPN Tunnels
 - 8 L2TP VPN Tunnels (Dial-in: 4, Dial-out: 4)
 - 8 PPTP VPN Tunnels (Dial-in: 4, Dial-out: 4)
- Embedded IPSec & PPTP client/server
- IKE key management
- DES, 3DES and AES encryption for IPSec
- Embedded powerful 3DES accelerator
- MPPE Encryption for PPTP
- L2TP within IPSec
- L2TP/PPTP/IPSec pass-through

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
- Supports DHCP server/client/relay

IPTV Application*

- IGMP Snooping
- Virtual LAN (VLAN)
- Quality of Service (QoS)

Quality of Service Control

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

Operating Environment

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

Models & Standards Support

- BiPAC 7402GA: Annex A
- BiPAC 7402GM: Annex A & AnnexM
- BiPAC 7402GB: Annex B & U-R2
- Annex A and Annex M: ADSL over POTS
- Annex B and Annex U-R2: ADSL over ISDN

*Note:

1. The router may require firmware modification for certain ADSL2+/Annex M DSLAMs.
2. IPTV application may require subscribing to IPTV services from a Telco/ISP.
3. Specifications in this datasheet are subject to change without prior notice.

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