

BiPAC 7300(G)



(802.11g) ADSL2+ Firewall Router with EZSO and QoS

Easy to set up to surf the net! Billion's BiPAC 7300(G) series is an all-in-one compact package of ADSL2+ router perfectly designed for home and SOHO users to enjoy the mobility and faster speed when using ADSL Internet connection. The device lets you access high-speed ADSL Internet connection, even faster with advanced ADSL2+ capability with downstream rate up to 24 Mbps. The router supports Easy Sign-On (EZSO) technology, enabling users to establish ADSL connections via standard web browsers such as Internet Explorer. This user-friendly design supports all kinds of operating systems, significantly reducing the time and efforts spent configuring your system. An abundance of integrated firewall security features such as SPI, DoS attack prevention, and URL Content Filtering provide users unparalleled protection from hackers. The Quality of Service feature ensures a smooth net connection for inbound and outbound data, with minimal traffic congestion.

- High speed Internet access with ADSL2/2+; backward compatible with ADSL
- 802.11g Wireless AP with WPA-PSK/WPA2-PSK Support (BiPAC 7300G)
- SOHO Firewall Security with DoS Prevention and SPI
- Easy Sign-On (EZSO) and Web-based Configuration
- Quality of Service Control for Traffic Prioritization and Bandwidth Management
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Supports Virtual Private Network (VPN) pass-through
- Supports IPTV Application*
- Ideal for Home and SOHO Users



▲ BiPAC 7300G



▲ BiPAC 7300

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 7300(G)A model supports the latest ADSL2/2+ for higher upload speeds.

Smooth and Responsive Net Communication

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.

Easy Sign-On (EZSO)

Easy Sign-On (EZSO) technology allows users to effortlessly establish an ADSL connection through standard web browsers such as Internet Explorer. The router can automatically detect the PPPoE/PPPoA or DHCP protocol for your ADSL connection. Just log into the system with the required username and password provided by your ISP, and the router will automatically establish the Internet connection for you. This user-friendly design supports all kinds of operating systems.

Robust Firewall Security

Along with the built-in NAT natural firewall feature, the router's advanced anti-hacker pattern-filtering protection feature automatically detects and blocks Denial of Service (DoS) attacks. Built with Stateful Packet Inspection (SPI), the router enables users to determine whether or not a given data packet is allowed to pass through the firewall to the private LAN.

Wireless Mobility (BiPAC 7300G)

With an integrated 802.11g Wireless Access Point, the router offers quick and easy access and mobility to the users of wired networks, wireless networks, and broadband connections (ADSL). In addition to supporting the 54 Mbps 802.11g data rate, it is also backward compatible with existing 802.11b equipment. The Wireless Protected Access (WPA-PSK/WPA2-PSK) and Wireless Encryption Protocol (WEP) features enhance the level of data protection and access control via a 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.

Powering communications
with Security



ADSL Modem / Router

Wireless ADSL Router

Home Networking ADSL Router

Broadband Router

Security Router

VoIP ADSL Modem/Router

SHDSL Bridge / Router

iBusiness Security Appliance

Features & Specifications

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
- Compliant with ADSL2 Standard
 - G.dmt.bis (ITU G.992.3)
 - ADSL2 Annex M (ITU G.992.3 Annex M) (Available for BiPAC 7300(G)A 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 7300(G)A 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 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

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

Wireless 802.11g (BiPAC 7300G)

- 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
- Wireless Security with WPA-PSK/WPA2-PSK support
- WDS repeater function support

IPTV Application*

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

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)
- 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
- Supports 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 (BiPAC 7300G)

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

Physical Interface (BiPAC 7300)

- Power jack
- Factory default reset button
- LAN: 4-port 10/100M auto-crossover (MDI/MDI-X) switch
- LINE: ADSL port

Physical Specification

- (BiPAC 7300) Dimensions: 5.20" x 3.70" x 1.38"
(132mm x 94mm x 35mm)
- (BiPAC 7300G) Dimensions: 7.09" x 4.72" x 1.57"
(180mm x 120mm x 40mm)

Power Requirement

- Input: 12V DC, 1A

Models & Standards Support

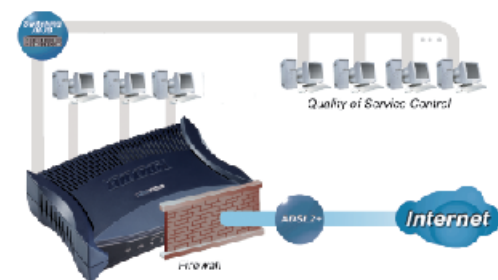
- BiPAC 7300(G)A: Annex A & Annex M
- BiPAC 7300(G)B: Annex B
- BiPAC 7300(G)U: U-R2
- Annex A and Annex M: ADSL over POTS
- Annex B and Annex U-R2: ADSL over ISDN

Application Diagram

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▼ BiPAC 7300



*Note:

1. The router may require firmware modification for certain ADSL2/2+ / 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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