ADSL Modem / Router

Wireless ADSL Router

Home Networking
ADSL Router

Broadband Router

Security Router

VoIP ADSL Modem/Router

SHDSL Bridge / Router

iBusiness
Security Appliance

BILLION ™

BiPAC 7300(G)

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

▲ **BiPAC 7300G**

▲ **BiPAC 7300**

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 24Mbps. The router supports Easy Sign-On (EZSO) technology enabling users to establish an ADSL connection easily via standard web browser like IE. This user-friendly design supports all kinds of operating systems so that you can significantly save configuration efforts. The Quality of Service feature ensures a smooth net connection for inbound and outbound data with minimum traffic congestion. Rich Firewall security features such as SPI, DoS attack prevention, and URL Content Filtering are integrated to provide users unparalleled protection from hackers' attack.

- High speed Internet access with ADSL2/2+; backward compatible to 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
- Support IPTV Application*
- 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 ADSL2/2+, 8Mbps with ADSL and upstream rate up to 1 Mbps. With this technology, 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. Particularly, Annex M standard combined in the model of BiPAC 7300(G)A supports the latest ADSL2/2+ for higher upload speeds by doubling the upstream data rate.

Smooth and Responsive Net 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.

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

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.

Wireless Mobility (BiPAC 7300G)
With integrated 802.11g Wireless Access Point in the router, the device offers a quick yet 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 equipments. The Wireless Protected Access (WPA-PSK/WPA2-PSK) and Wireless Encryption Protocol (WEP) features 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 wires at all.

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.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
- Support 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 – 2.484G Hz 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

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
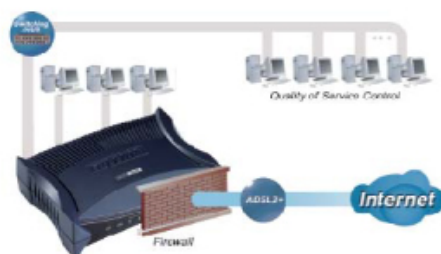
▲ BiPAC 7300 Application Diagram

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
- Support DHCP server/client/relay
- SNMP v3, MIB-I and MIB-II support

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

Operating Environment
- Operating temperature: 0 ~ 40 ℃
- Storage temperature: -20 ~ 70 ℃
- 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

▲ BiPAC 7300G Application Diagram

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