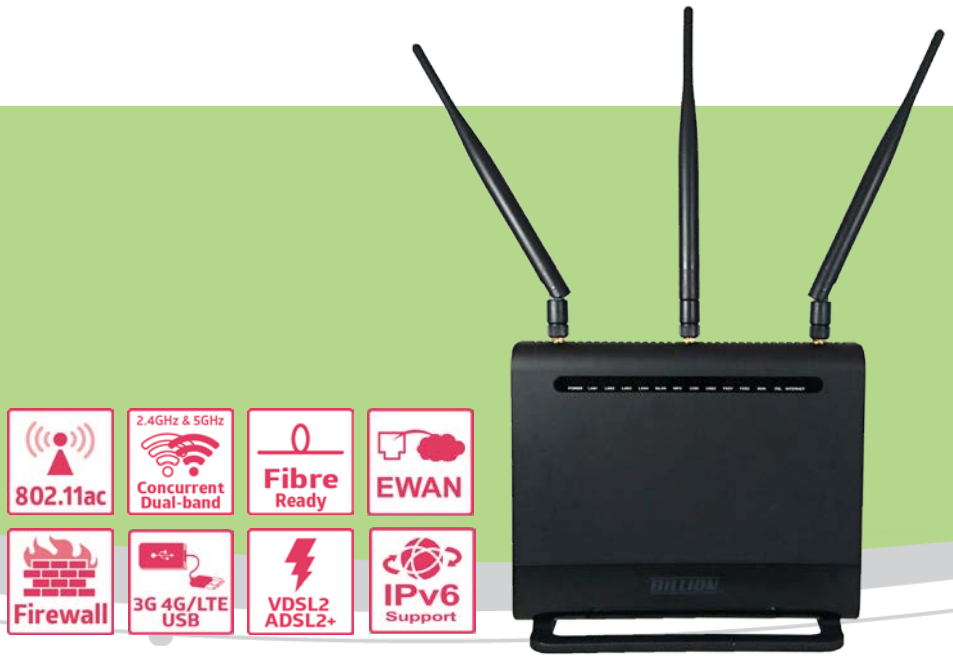

Ideal for Home, and SOHO Users

BiPAC 8700AXL-1600

Triple-WAN Wireless 1600Mbps, 3G/4G LTE and VDSL2/ADSL2+ Firewall Router

The Billion BiPAC 8700AXL-1600 is a multi-service VDSL2 router. It features fiber-ready triple-WAN VDSL2 supports backward compatibility to ADSL2+for a longer reach distance, an all-in-one advanced device including concurrent dual-band 802.11ac (5GHz) 1300Mbps and 802.11n (2.4GHz) 300Mbps, Gigabit Ethernet, connections to 3G/4G LTE and NAS (Network Attached Storage) in one unit. As well as being IPv6-capable, the BiPAC 8700AXL-1600 VDSL2 router supports superfast fiber connections via a Gigabit Ethernet WAN port. It also has one USB port, allowing the device to act as a NAS (Network Attached Storage) device with DLNA (Digital Living Network Alliance) and FTP (File Transfer Protocol) access. Moreover, the USB port can host a 3G/4G LTE modem connecting to the 3G/4G LTE network for Internet access. With an array of advanced features, the Billion BiPAC 8700AXL-1600 delivers a future-proof solution for VDSL2 connections, superfast FTTC and ultra-speed FTTH (Fiber-To-The-Home) network deployment and services.

Maximum Performance Dual-band Wi-Fi Router

Featured with simultaneous dual-band technology, the BiPAC 8700AXL-1600 can run both 2.4GHz and 5GHz frequency bands at the same time, offering ultra-fast wireless speeds of up to 1300Mbps (5GHz) and 300Mbps (2.4GHz), and SSIDs on both bands. The BiPAC 8700AXL-1600, by adopting this state-of-the-art technology, allows for multiple-demand applications, such as streaming HD videos and multiplayer gaming simultaneously. The Wireless Protected Access (WPA-PSK/WPA2-PSK) and Wireless Encryption Protocol (WEP) features enhance the level of transmission security and access control over wireless LAN. The router also supports the Wi-Fi Protected Setup (WPS) standard, allowing users to establish a secure wireless network by simply pushing a button. If your network requires wider coverage, the built-in Wireless Distribution System (WDS) repeater function allows you to expand your wireless network without the need for any external wires or cables.

Pathway to the Future

IPv6 (Internet Protocol Version 6), launched as the current IPv4 is getting filled up, gradually becomes the indispensible addressing system for the savvy cloud computing users. Equipped with IPV6, the BiPAC 8700AXL-1600 eagerly provides users a better working environment to work with, a shortcut to upgrade and a more efficient solution to save budget. For the customers during this transition period, dual stack (IPv4 and IPv6) feature enables the hosts a convenient way to reserve both address to smooth over this coexistent period.

3G/4G LTE Mobility and Always-On Connectivity

With the BiPAC 8700AXL-1600 you can connect a 3G/4G LTE USB modem to its built-in USB port, allowing you to watch movies, download music or access e-mail no matter where you may be. You can even share your Internet connection with others, when away on business, at a show, or wherever there is mobile signal but no fixed line access. The auto fail-over feature ensures maximum connectivity and minimum interruption by quickly and smoothly connecting to a 3G/4G LTE network in the event that your DSL/fiber/cable line fails. The BiPAC 8700AXL-1600 will then automatically reconnect to the DSL2/fiber/cable connection when it's restored, reducing connection costs. These features are perfect for office situations where a constant and uninterrupted connection is critical.

- Compliant with VDSL2/ADSL2+ standards
- Triple-WAN ports for 3G/4G LTE, VDSL2/ADSL2+ fallback, Gigabit Ethernet WAN (EWAN) for broadband connectivity
- Simultaneous dual-band Wireless 1300Mbps (5GHz) and 300Mbps (2.4GHz)
- Gigabit EWAN and LAN ports
- IPv6 ready (IPv4/IPv6 dual stacks)
- Fibre (FTTC/FTTP/FTTH) ready with high WAN throughput
- NBN (National Broadband Network) ready*1
- USB port for NAS, DLNA media server, and 3G/4G LTE USB modem
- SNR adjustments to achieve highest sync speeds
- Monitoring of individual LAN ports
- QoS for traffic prioritization and bandwidth management
- Compliant with IEEE 802.11a/b/g/n and 802.11ac standards
- WPS (Wi-Fi Protected Setup) for easy setup
- Wireless security with WPA-PSK/WPA2-PSK
- Supports WDS repeater function
- Multiple wireless SSIDs with wireless guest access and client isolation
- Supports Interface Grouping (VLAN_MUX)
- SOHO firewall security
- Auto failover and fallback
- Supports IPTV application*2
- Ease of use with quick installation wizard (EZSO)
- Broadcom chipset for better stability
- Ideal for SOHO and office users

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Features &Specifications

VDSL2/ADSL2+ Compliance

- Compliant with xDSL standard
  - ITU-T G.993.2 (VDSL2)
  - ITU-T G.998.4 (G.inp)
  - ITU-T G.993.5 (G.vector)
  - ITU-T G.992.5 (G.dmt.bis plus, Annex M) (ADSL2+ Annex M, available for BiPAC 8700AXL-1600 (Annex A) only)
  - ITU-T G.992.3 (G.dmt.bis, Annex M, ADSL2 Annex M, available for BiPAC 8700AXL-1600 (Annex A) only
  - Full-rate ANSI T1.413 Issue 2
  - ITU-T G.992.1 (G.dmt)
  - ITU-T G.992.2 (G.lite)
  - ITU-T G.994.1 (G.hs)
- Supports VDSL2 band plan: 997 and 998
- ADSL/2/2+ fallback modes
- Supports VDSL2 profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a
- Supports ATM and PTM modes

Network Protocols and Features

- IPv4 or IPv4/IPv6 dual stack
- NAT, static (v4/v6) routing and RIP-1/2
- IPv6 stateless/stateful address auto-configuration
- IPv6 router advertisement
- IPv6 over PPP
- DHCPv6
- IP tunnel IPv6 in IPv4 (6RD)
- IP tunnel IPv4 in IPv6 (DS-Lite)
- Universal Plug and Play (UPnP) compliant
- Dynamic Domain Name System (DDNS)
- Virtual server and DMZ
- SNTP, DNS relay, IGMP proxy and IGMP snooping for video service
- MLD proxy and MLD snooping for video service
- Management based-on IP protocol, port number and address
- Supports port-based Interface Grouping(VLAN)

Firewall

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- DoS attack prevention
- Packet filtering (v4/v6) - port, source IP address, destination IP address
- MAC filtering
- URL content filtering (v4/v6) - string or domain name detection in URL string

Quality of Service Control

- Supports the DiffServ approach
- Traffic prioritization and bandwidth management based-on IPv4/IPv6 protocol, port number and address

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

IPTV Applications*2

- IGMP snooping and IGMP proxy
- MLD snooping and MLD proxy
- Interface Grouping (VLAN)
- Supports VLAN MUX
- Quality of Service (QoS)

Wireless LAN

- Compliant with IEEE 802.11a/b/g/n/ac standards
- 2.4 GHz and 5 GHz frequency range
- Up to 1600Mbps wireless operation rate
- WPS (Wi-Fi Protected Setup) for easy setup
- Supports WPS v2
- 64/128 bits WEP supported for encryption
- Wireless security with WPA-PSK/WPA2-PSK
- Multiple wireless SSIDs with wireless guest access and client isolation
- WDS repeater function

USB Application Server

- 3G/4G LTE USB modem
- Storage/NAS: FTP server, samba server, DLNA media server

Management

- Easy Sign-On (EZSO)
- Web-based GUI for remote and local management (IPv4/IPv6)
- Firmware upgrade and configuration data upload and download via web-based GUI
- Embedded Telnet server for remote and local management
- Supports SNMP v1, v2, MIB-I and MIB-II
- Supports DHCP server/client/relay
- TR-069*3 supports remote management
- Available syslog
- Mail alert for WAN IP changed
- Auto failover and fallback
- Push server

Hardware Specifications

Physical Interface

- WLAN: 3 external antennas
- DSL: VDSL port
- USB 2.0 supports storage service and 3G/4G LTE USB modem
- Ethernet: 5-port 10/100/1000M auto-crossover (MDI/MDI-X) switch
- EWAN: Ethernet port #5 can be configured as a WAN interface for broadband connectivity
- Factory default reset button
- WPS push button
- Power jack
- Power switch

Physical Specifications

- Dimensions: 8.27" x 7.13" x 2.83" (210 mm x 181 mm x 72 mm)

Power Requirements

- Input: 12V DC, 2.0A

Operating Environment

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

***Notes:**

1. This is only applicable for Australia and New Zealand.
2. IPTV application may require subscription to IPTV services from a Telco / ISP.
3. On request for Telco / ISP projects
4. Specifications on this datasheet are subject to change without prior notice.

V20170210

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