



## BiPAC 8200AX-1200

Ideal for  
Home, and  
SOHO  
Users

### Triple-WAN Wireless 1200Mbps, 3G/4G LTE and VDSL2/ADSL2+ VPN Firewall Router

The Billion BiPAC 8200AX-1200 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) 867Mbps 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 8200AX-1200 VDSL2 router supports superfast fiber connections via a Gigabit Ethernet WAN port. It also has two USB ports, allowing the device to act as a NAS (Network Attached Storage) device and FTP (File Transfer Protocol) access. Moreover, the USB port can host a 3G/4G LTE USB modem connecting to the 3G/4G LTE network for Internet access. With an array of advanced features, the Billion BiPAC 8200AX-1200 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 8200AX-1200 can run both 2.4GHz and 5GHz frequency bands at the same time, offering ultra-fast wireless speeds of up to 867Mbps (5GHz) and 300Mbps (2.4GHz), and SSIDs on both bands. The BiPAC 8200AX-1200, 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.

#### Secure VPN Connections

The BiPAC8200AX-1200 supports embedded IPSec VPN (Virtual Private Network) protocols, allowing users to establish encrypted private connections over the Internet and maximum concurrent VPN Tunnels. You can access your corporate Intranet and transmit sensitive data between branch offices and remote sites anytime; even when you are out of office, thus enhancing productivity.

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

With the BiPAC 8200AX-1200 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 8200AX-1200 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.

#### Experience Gigabit

The BiPAC 8200AX-1200 has four Gigabit LAN ports and one Giga Ethernet port as an Ethernet WAN port. This EWAN offers another broadband connectivity option for connecting to a cable, DSL, fiber modem.

- 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 867Mbps (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 via EWAN port
- NBN (National Broadband Network) ready\*1
- USB port for NAS, and 3G/4G LTE USB modem
- QoS for traffic prioritization and bandwidth management
- Secure VPN with powerful DES/3DES/AES
- Maximum concurrent VPN Tunnels
- 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
- Multiple wireless SSIDs with wireless guest access and client isolation
- Supports Interface Grouping
- SOHO firewall security
- Auto failover and fallback
- Supports IPTV application\*2
- Ideal for SOHO and office users
- Support Traffic Log (Log Law No. 5651 in Turkey)

## 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.992.3 (G.dmt.bis) Annex A, B, I, J, L and M.
  - ITU-T G.992.5 (G.dmt.bis plus)
  - Full-rate ANSI T1.413 Issue 2
  - ITU-T G.992.1 (G.dmt) Annex A, B
  - ITU-T G.992.2 (G.lite) Annex A, B
- Supports VDSL2 band plan: 997 and 998
- ADSL2/2+ fallback modes
- Supports VDSL2 profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a and 35b.
- Supports ATM and PTM modes
- Supports Dying Gasp

### 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 Interface Grouping

### Firewall

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack, Ping of Death, etc
- Remote access control for web based access
- Packet filtering - port, source IP address, destination IP address
- URL content filtering - string or domain name detection in URL string
- MAC filtering
- Password protection for system management

### Virtual Private Network (VPN)

- IPsec VPN tunnels
- IKE key management
- DES, 3DES and AES encryption for IPsec
- IPsec pass-through
- GRE (Generic Routing Encapsulation) tunnel
- Supports L2TP, PPTP, and L2TP over IPsec.
- Supports OpenVPN.
- Maximum concurrent VPN Tunnel = 20

### Quality of Service Control

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

### ATM and PPP Protocols

- Compliant with xDSL standard
- ATM Adaptation Layer Type 5 (AAL5)
- Multiple protocol over AAL5 (RFC 2684, formerly RFC 1483)
- Bridged or routed Ethernet encapsulation
- VC-based 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<sup>\*2</sup>

- IGMP snooping and IGMP proxy
- MLD snooping and MLD proxy
- Interface Grouping
- 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 1200Mbps wireless operation rate
- WPS (Wi-Fi Protected Setup) for easy setup
- Supports WPS
- 64/128 bits WEP supported for encryption
- Wireless security with WPA-PSK/WPA2-PSK
- Multiple wireless SSIDs with wireless guest access and client isolation

### USB Application Server

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

### Management

- 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
- Supports DHCP server/client/relay
- TR-069<sup>\*3</sup> supports remote management
- Auto failover and fallback

### Hardware Specifications

#### Physical Interface

- WLAN: 2 external antennas
- DSL: VDSL port
- USB 2.0 and USB 3.0 support storage service and 3G/4G LTE USB modem
- Ethernet: 4-port 10/100/1000M auto-crossover (MDI/MDI-X) switch
- EWAN: one 10/100/1000M Ethernet port as a WAN interface for broadband connectivity
- Factory default reset button
- WPS push button
- Power jack
- Power switch

#### Physical Specifications

- Dimensions: 8.82" x 5.81" x 1.28"  
(224.0mm x 147.6mm x 32.4mm)

#### Power Requirements

- Input: 15V DC, 1.5A

#### Operating Environment

- Operating temperature: 0°C ~ 45°C
- Storage temperature: -20°C ~ 70°C
- 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.

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