BILLION®

| WiFi 6 | 2.4GHz & 5GHz Concurrent Dual-band | ADSL2+ VDSL2 | VDSL 35b | Gigabit ETH WAN | 3-Port GbE Switch |

| Business Continuity | IPv6 Support | IPTV Support | WPA/WPA2 | VPN Security | Firewall |

| High Availability | Load Balance | QoS |

BiPAC 8207AX

V/ADSL2+ AX1500 VPN Firewall Router

The BiPAC 8207AX, dual-WAN, EWAN and VDSL&ADSL2+ VPN firewall router integrates the 802.11ax (5GHz) + 802.11n (2.4GHz) Wireless Access Point and Giga switch. BiPAC 8207AX provides Gigabit Ethernet WAN interfaces, with an integrated 802.11n/ac/ax dual-band wireless access point and 4-port Gigabit Ethernet LAN (3 ports Gigabit switch ports and extra one Giga Ethernet port cab be as LAN or EWAN port), enables high-speed and secured Internet connectivity for home, SOHO, and enterprise users.

Smooth, Responsive Net Connection
Quality of Service (QoS) gives user full control over outgoing data traffic. Priority can be assigned by the router to ensure that important transmissions like gaming packets, calls or IPTV/streaming content passes through the router at lightning speed, even when there is heavy Internet traffic. The speed of different types of outgoing data passing through the router is also controlled to ensure that users do not saturate bandwidth with their browsing activities.

Maximum Performance Dual-band Wireless Router
Featured with simultaneous dual-band technology, the BiPAC 8207AX can run both 2.4GHz and 5GHz frequency bands at the same time, offering ultra-fast wireless speeds of up to 1200Mbps (5GHz) and 300Mbps (2.4GHz), and SSIDs on both bands. The BiPAC 8207AX, 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.

Experience Gigabit
The BiPAC 8207AX has 3 ports Gigabit switch ports and extra one Giga Ethernet port cab be as LAN or EWAN port. This EWAN offers another broadband connectivity option for connecting to a cable, DSL, fiber modem.

Secure VPN Connections
The BiPAC 8207AX supports embedded IPSec VPN (Virtual Private Network) protocols, allowing users to establish encrypted private connections over the Internet. 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.

- ✓ Compliant with VDSL2/ADSL2+ standards
- ✓ Dual-WAN ports for VDSL2/ADSL2+, Gigabit Ethernet WAN (EWAN) for broadband connectivity
- ✓ Load balance among multiple WAN interfaces
- ✓ Simultaneous dual-band Wireless 1200Mbps (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 storage.
- ✓ QoS for traffic prioritization and bandwidth management
- ✓ Secure VPN with powerful DES/3DES/AES
- ✓ Compliant with IEEE 802.11a/b/g/n and 802.11ac/ax standards
- ✓ Supports MU-MIMO and mesh
- ✓ 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 Bridge Grouping
- ✓ SOHO firewall security
- ✓ Auto failover and failback
- ✓ Supports IPTV application [*2]
- ✓ Ideal for home, SOHO, retail stores

Features & Specifications

VDSL2/ADSL2+ Complianc
- 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
- ADSL/2/2+ 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 Bridge Grouping

Firewall
- Built-in NAT firewall
- 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.

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[2]
- IGMP snooping and IGMP proxy
- MLD snooping and MLD proxy
- Bridge Grouping
- Supports VLAN MUX
- Quality of Service (QoS)

Wireless LAN
- Compliant with IEEE 802.11a/b/g/n/ac/ax standards
- 2.4 GHz and 5 GHz frequency range
- Up to 1500Mbps 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
- Storage/NAS: FTP server, Samba server (V1 & V2)

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[4] supports remote management
- Load balance
- Auto failover and failback

Hardware Specifications
Physical Interface
- WLAN: 2 external antennas
- DSL port
- USB 2.0 port
- Ethernet: 3-port 10/100/1000M auto-crossover (MDI/MDI-X) switch
  Extra one Giga Ethernet ports can be configured as a LAN or EWAN interface for broadband connectivity
- Factory default reset button
- WPS push button
- Power jack
- Power switch

Physical Specifications
- Dimensions: 9.04" x 6.10" x 1.69" (229.5 mm x 155 mm x 43 mm)

Power Requirements
- Input: 15V DC, 2A

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. Only upon request for Telco / ISP tender projects.
3. On request for Telco / ISP projects
4. Specifications in this datasheet are subject to change without prior notice

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