



BiPAC 8206AZ

3G/4G LTE Embedded V/ADSL2+ Wireless-AC VPN Firewall Router

The BiPAC8206AZ, triple-WAN, EWAN, 3G/LTE and VDSL&ADSL2+ firewall router is integrated with the 802.11ac (5GHz) + 802.11n (2.4GHz) Wireless Access Point and 4-port Giga switch. It is a cutting-edge networking product for SOHO and residential users. Uniquely, the router allows users to directly insert 3G/4GLTE SIM card into its built-in SIM slot instead of requiring external USB modems. This design will avoid compatibility issues of many different 3G/LTE USB modems. With the increasing popularity of the 3G/4GLTE standard, communication via the BiPAC8206AZ is becoming more convenient and widely available - enabling users to use 3G/4GLTE, and UMTS Internet connection, making downstream rates of up to 150Mbps possible^{*3}. Users can watch movies, download music or access e-mail wherever a 3G/4G LTE connection is available.

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

The BiPAC8206AZ router allows you to insert 3G/4G LTE SIM card to its built-in SIM slot, enabling you to use a 3G/4G LTE Internet connection, which makes downstream rates of up to 150Mbps^{*3} possible. With the increasing popularity of the 3G/4GLTE standard, communication via the BiPAC8206AZ is becoming more convenient and widely available - allowing you to watch movies, download music on the road, or access e-mail no matter where you are. You can even share your Internet connection with others, no matter if you're in a meeting, or speeding across the country on a train. The BiPAC8206AZ provides failover & fallback feature. These features are perfect for office situations where constant connection is paramount. To manage this device remotely efficiently and conveniently to save labor cost being on-site support, two ways are supported, one is via the TR-069 management protocol and the other is via the SMS. Via the SMS, user could easily send message with smart phone to BiPAC 8206AZ to configure the device and retrieve information. Those commands include getting router status, WAN IP address, turning Internet UP or DOWN, enabling/disabling remote WEB access, configuring APN, rebooting the device, rebooting the device with factory default and etc.

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, VoIP 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 8206AZ 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 8206AZ, 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 8206AZ 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.

■ Secure VPN Connections

The BiPAC8206AZ 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
- ✓ Triple-WAN ports for 3G/4G LTE, VDSL2/ADSL2+ fallback, Gigabit Ethernet WAN (EWAN) for broadband connectivity
- ✓ Load balance among multiple WAN interfaces
- ✓ Embedded LTE and SIM slot
- ✓ SMS remote management
- ✓ 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 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 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 Bridge Grouping
- ✓ SOHO firewall security
- ✓ Auto failover and fallback
- ✓ Supports IPTV application^{*2}
- ✓ Ideal for home, SOHO, retail stores

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

3G/4G LTE *3

- LTE: peak downlink speed of up to 150Mbps and peak uplink speed of up to 50Mbps
 - Supports multi-band
 - FDD LTE: B1/B3/B5/B7/B8/B20
 - TDD LTE: B38/B40/B41
 - Supports multi-band WCDMA: B1/B5/B8

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
- 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.

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 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

- 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 DHCP server/client/relay
- Supports SNMP
- Supports SMS
- TR-069 *4 supports remote management
- Load balance
- Auto failover and fallback

Hardware Specifications

Physical Interface

- WLAN: 2 external antennas
- LTE: 2 external antennas
- DSL: VDSL port
- USB 2.0: support storage service
- 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
- SIM slot
- Factory default reset button
- WPS push button
- Power jack
- Power switch

Physical Specifications

- Dimensions:

Power Requirements

- Input: 15V DC, 1.6A

Operating Environment

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

*Notes:

- This is only applicable for Australia and New Zealand.
- Only upon request for Telco / ISP tender projects.
- The 3G/4G LTE data rate is dependent on the embedded module and your local service provider.
- On request for Telco / ISP projects
- Specifications in this datasheet are subject to change without prior notice