



BiPAC 8700AZ

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

The BiPAC8700AZ, triple-WAN, EWAN, 3G/LTE/VDSL&ADSL2+ firewall router is integrated with the 802.11ac (5GHz) + 802.11n (2.4GHz) Wireless Access Point and 2 Giga ports + 3 FE ports switch. It is a cutting-edge networking product for SOHO and office 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 BiPAC8700AZ is becoming more convenient and widely available - enabling users to use 3G/4GLTE, UMTS, EDGE, GPRS, or GSM Internet connection, making downstream rates of up to 100Mbps possible. 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 BiPAC8700AZ 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 100Mbps possible. With the increasing popularity of the 3G/4GLTE standard, communication via the BiPAC8700AZ 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 BiPAC8700AZ will then automatically reconnect to the ADSL connection when it's restored, reducing connection costs. These features are perfect for office situations where constant connection is paramount.

Secure VPN Connections

The BiPAC8700AZ supports embedded IPSec VPN (Virtual Private Network) protocols, allowing users to establish encrypted private connections of up to 16 simultaneous tunnels 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.

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 8700AZ 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 8700AZ, 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.

- IPv6 ready (IPv4/IPv6 dual stack)
- Triple-WAN approach –VDSL2/ADSL2+, 3G/4G LTE or Ethernet WAN for broadband connectivity
- 3G/4G LTE embedded with SIM card slot
- 2 * 10/100/1000 Mbps and 3 * 10/100 Mbps Ethernet switch
- One Giga Ethernet port can be configured as a WAN interface for broadband connectivity
- Auto failover feature to ensure an always-on connection
- 16 IPSec VPN tunnels supported
- Secure VPN with powerful DES/3DES/AES
- Dual Band Radios and compliant with IEEE 802.11a/b/g/n and 802.11ac standards
- Wireless speed of up to 1600Mbps
- Wireless Access Point with Wi-Fi Protected Setup (WPS), Wi-Fi Protected Access (WPA-PSK/ WPA2-PSK) and Wired Equivalent Privacy (WEP)
- Quality of Service control for traffic prioritization and bandwidth management
- SOHO firewall security with DoS prevention and packet filtering
- Supports IPTV applications^{*1}

Ideal for

- SOHO and office users
- Event or meeting organizers
- Retail stores
- M2M monitoring and control applications

Features & Specifications

ADSL 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 8700AZA model only)
 - ITU-T G.992.3 (G.dmt.bis, Annex M, ADSL2 Annex M, available for BiPAC 8700AZA model 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
- Supports VDSL2 profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a in single line mode
- Supports ATM and PTM modes

3G/4GLTE^{*3}

- LTE: peak downlink speed of up to 150Mbps and peak uplink speed of up to 50Mbps
 - Supports multi-band LTE: depended on the 4G LTE module
- 3G/HSPA+: depended on the 4G LTE module
- Web-based GUI for configuration and management

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 and 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
- SMTP client with SSL/TLS
- Supports port-based and tag-based Interface Grouping (VLAN)

Virtual Private Network (VPN)

- 16 IPSec VPN tunnels
- IKE key management
- DES, 3DES and AES encryption for IPSec
- IPSec pass-through
- GRE (Generic Routing Encapsulation) tunnel
- Supports L2TP, PPTP, OpenVPN

USB Application Server

- Storage/NAS: FTP server, SAMBA server
- Supports DLNA

IPTV Applications^{*1}

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

Firewall

- Built-in NAT Firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Supports web(http/ssh/ftp/telnet/snmp)
- IP filtering incoming/outgoing(v4/v6)
- URL content filtering - string or domain name detection in URL string
- MAC filtering
- Password protection for system management

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

- 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

Wireless LAN

- Compliant with IEEE 802.11a/b/g/n/ac standards
- Dual 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

Management

- Easy Sign-On (EZSO)
- Web-based GUI for remote and local management(IPv4/ IPv6)
- Firmware upgrades and configuration data upload and download via web-based GUI
- Embedded Telnet server for remote and local management
- SNMP v1, v2, MIB-I and MIB-II supported
- Supports DHCP server/client/relay
- TR-069 supports remote management
- Available Syslog
- E-Mail alert for WAN IP changing
- Wake On LAN
- Auto failover and fallback
- Push service

Hardware Specifications

Physical Interface

- 3G/4G LTE antenna * 2
- WLAN: Wireless antenna * 3
- Power jack
- Power switch
- Factory default reset button
- WPS push button
- SIM card slot (for the SIM card from Telco/ISP)
- Ethernet: 2-port 10/100/1000Mbps auto-crossover (MDI / MDI-X) + 3-port 10/100Mbps switch
- EWAN: One 10/100/1000Mbps Ethernet port can be configured as a WAN interface for broadband connectivity
- DSL: V/ADSL port
- USB: USB 2.0 type A port

Physical Specifications

- Dimensions:

Power Requirements

- Input: 15V, 2A

Operating Environment

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

*Notes:

- IPTV application may require subscribing to IPTV services from a Telco / ISP.
- Only upon request for Telco / ISP tender projects.
- The 3G/4GLTE data rate is dependent on your local service provider.
- Specifications in this datasheet are subject to change without prior notice