BILLION ®

BiPAC 4520AZ
4G/LTE Dual-SIM Dual-Band Wireless VPN Router

BiPAC 4500AZ
4G/LTE Dual-Band Wireless VPN Router

4G/LTE Embedded
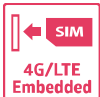
Gigabit

BiPAC 4520AZ/ BiPAC 4500AZ

The BiPAC 4520AZ/ 4500AZ supports the state-of-the-art 4G/LTE network which is reliable, scalable and flexible for indoor applications. Embedded with 4G/LTE module and Gigabit EWAN interfaces, the BiPAC 4520AZ/ 4500AZ enables high-speed and secured Internet connectivity for home, SOHO, and enterprise users. With an integrated dual-band wireless access point and 4-port Gigabit Ethernet LAN, the BiPAC 4520AZ/ 4500AZ can run both 2.4GHz and 5GHz to maximum wireless speed 1.2Gbps (867Mbps at 5GHz, 300Mbps at 2.4GHz) and 10 times faster LAN connection than the regular Fast Ethernet LAN.

4G LTE Mobility

With 4G/LTE-based Internet connection (4G/LTE module and dual-SIM embedded), users can access the Internet while sitting on anywhere.

Dual SIM

Single Radio/ Dual SIMs (BiPAC 4520AZ only)

The Dual-SIM provides failover feature to keep Internet connectivity if primary SIM loses connectivity.

Automatic Failover/Failback between 4G/LTE and Gigabit EWAN

Uniquely embedded with 4G/LTE and Gigabit EWAN interfaces, BiPAC 4520AZ/ 4500AZ ensures a seamless Internet connectivity by featuring superior Failover/Failback functionality between 4G/LTE and EWAN. Either wired or wireless connection can be set up as primary or backup WAN port. When the main WAN interface fails, the secondary WAN interface will automatically back up the connection to ensure an always-on connectivity.

EWAN

2.4GHz & 5GHz / Concurrent Dual-band

Dual-Band Wireless Mobility and Security

With an integrated dual-band wireless access point, BiPAC 4520AZ/ 4500AZ runs both 2.4GHz and 5GHz simultaneously that the combined throughput can reach 1.2Gbps (867Mbps at 5GHz, 300Mbps at 2.4GHz). Multiple SSIDs with Client Isolation to enhance the level of transmission security and access control over the Wireless LAN. The network manager can assign different policies and functions for each SSID, increasing the flexibility and efficiency of the network infrastructure.

VPN Security

Secured VPN connection

Supporting comprehensive and robust VPN (Virtual Private Network) protocols including IPSec, OpenVPN, GRE, PPTP, L2TP, BiPAC 4520AZ/ 4500AZ allows users can establish private and encrypted data transmission tunnels over the public Internet between headquarter and branch offices. With a built-in DES/3DES VPN accelerator, BiPAC 4520AZ/ 4500AZ dramatically enhances IPSec VPN performance.

High Performance
- High speed 4G/LTE module [1]
- Gigabit Ethernet WAN and LAN
- Dual-Band wireless reaches 1.2Gbps

High Availability
- Fully supports for multiple LTE frequency bands [1]
- Dual-WAN interfaces - 4G/LTE and Gigabit EWAN
- Single Radio/ Dual SIMs (BiPAC 4520AZ)
- Single Radio/ Single SIM (BiPAC 4500AZ)
- Dual-Band wireless - 2.4GHz and 5GHz
- Multiple wireless SSIDs with wireless client isolation

Secure VPN Connections
- Embedded IPSec, GRE, OpenVPN, PPTP, L2TP with powerful encryption
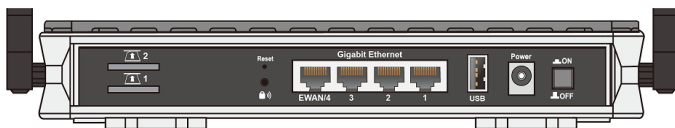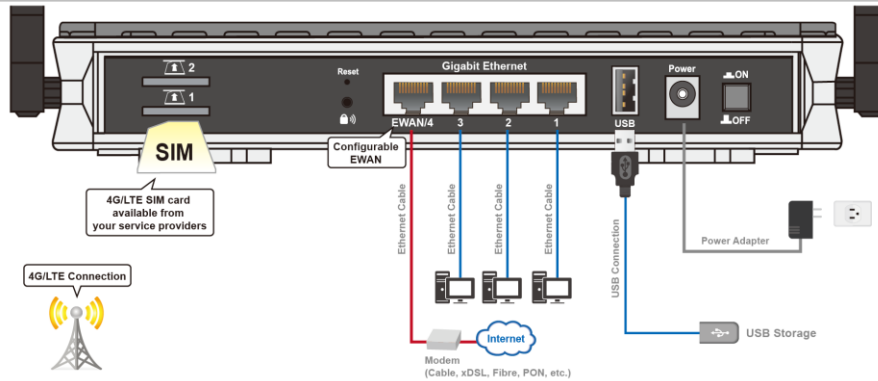
IPv6 Support
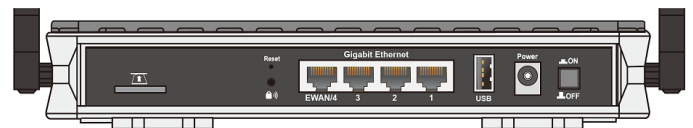- IPv4, IPv6, IPv4/ IPv6 dual stack [2]

USB Storage/ NAS
- Embedded SAMBA server, FTP server

Ideal for SOHO, office, and home users

Application Diagram

BiPAC 4520AZ

BiPAC 4500AZ

Features & Specifications

High-speed Mobile Wireless Communication
- Embedded high performance 4G/LTE module [1]
- High performance external antenna

Embedded 4G/LTE
- Frequency bands and data rare depend on equipped LTE module. [1]

Network Protocols and Features
- Dual WAN Failover/ Failback
- IPv4, IPv6, IPv4/IPv6 dual stack [2]
- Dual APN [3]
- Keep Alive
- IP Pass-Through
- NAT, Virtual Server and DMZ
- Static Routing, Dynamic Routing (RIP v1/v2, OSPF, BGP)
- SNTP, DNS relay and DDNS
- Universal Plug and Play (UPnP) compliant
- Supports DHCP server/ client/ relay

Firewall
- Built-in NAT Firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Access Control
- IP Filtering, MAC Filtering, URL Filtering
- VPN pass-through

Virtual Private Network
- IPSec
- PPTP
- L2TP
- GRE
- OpenVPN

Wireless LAN
- IEEE 802.11a/b/g/n/ac compliant
- Concurrent dual-band 802.11a/n/ac(5GHz) and 802.11b/g/n(2.4GHz)
- Up to 867Mbps wireless operation rate at 5GHz
- Up to 300Mbps wireless operation rate at 2.4GHz
- 64/128 bits WEP supported for encryption
- Wireless security with WPA-PSK, WPA2-PSK, Mixed WPA/WPA2-PSK
- WPS (Wi-Fi Protected Setup) for easy setup
- Multiple wireless SSIDs
- Wireless MAC Filtering
- Wireless Client Isolation
- Supports WDS repeater function

USB Applications Server
- Storage/NAS: FTP server, SAMBA server

Management
- Password protection for system management
- Quick installation wizard
- Web-based GUI for remote and local management
- Firmware upgrades and configuration data upload and download via Web-based GUI
- TR-069 (CWMP) [2], SNMP
- 3G/ 4G LTE Usage Allowance
- Syslog monitoring
- Physical layer/protocol diagnostic test tool
- Scheduling Auto-Reboot

Hardware Specifications

Physical Interface
- Two (2) detachable high performance 4G LTE antennas
- Two (2) detachable 5GHz antennas
- Two (2) internal 2.4GHz antennas
- Four (4) Gigabit Ethernet auto-crossover (MDI/MDI-X) switch
- One (1) USB 2.0 host type A
- Two (2) 2FF mini-SIM slot (BiPAC 4520AZ)
- One (1) 2FF mini-SIM slot (BiPAC 4500AZ)
- Factory default reset button
- Wireless on/off and WPS push button
- Power jack for DC input

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

Power Requirements
- DC power 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:
1. The 4G LTE is dependent on your local service provider.
2. Only upon request for Telco/ ISP tender projects.
3. Dual APN is not supported on some specific SKU, please confirm it with our sales.
4. Specifications in this datasheet are subject to change without prior notice.

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