

BiPAC 4700AZ



4G/LTE Outdoor Router with Carrier-Grade Dual-Band Wi-Fi Hotspot

The BiPAC 4700AZ 4G/LTE Outdoor Router with Carrier-Grade Dual-Band Wi-Fi Hotspot brings secure, high performance cellular connectivity to outside harsh environments for a variety of carrier applications such as Wi-Fi Hotspot, wireless broadband, remote surveillance, and critical data backhaul, etc.



Integrated with Latest 4G LTE Network and Dual-Polarized MIMO Antenna Technology

The BiPAC 4700AZ integrates the latest high speed 4G/LTE module enabling support of multiple high bandwidth applications. Areas with a weak or nonexistent wireless signal can benefit from the extended range and reach of the Dual-Polarized MIMO antenna technology for their environment or application whether LOS(Line of Sight) or NLOS(Non-Line of Sight).



Carrier-Grade Dual-Band Wireless LAN with 2000 Mbps Wireless Speed

The BiPAC 4700AZ supports concurrent dual-band 802.11a/n/ac (5GHz) and 802.11b/g/n (2.4GHz) Wireless LAN with 2000 Mbps wireless speed, allowing for Wi-Fi Hotspot functionality anywhere there is cellular signal. The captive portal enables highly secure connectivity with multiple authentication options and extensive controls for access and bandwidth management. Customization options allow for operator logos, branding or advertisement placement.



Enterprise Class Secure VPN Connections

The BiPAC 4700AZ supports VPN (Virtual Private Network) protocols for business users to establish private encrypted tunnels over the public Internet to secure data transmission between offices.



IP67 Industrial-Grade Secure Design

The BiPAC 4700AZ is an industrial-grade design with an IP67 rated enclosure to withstand the extreme weather conditions. Also, built-in $\pm 6K$ surge(K.21) and $\pm 15KV$ ESD(EN 61000-4-5) protection design protects against storm/lightning surges and ensuring robust and reliable operation.



Easy Installation with PoE Support

Easy Installation is realized with integrated Power over Ethernet (PoE) support, eliminating the need for separate power and data cables.



High Availability

The BiPAC 4700AZ supports either Giga EWAN or 4G/LTE as the main WAN interface or backup WAN interface. Automatic failover between Giga EWAN and/or 4G/LTE is implemented to assure the always on internet connectivity.

High Performance and Fully Supports for Multiple LTE Frequency Bands

- High performance 4G/LTE module
- Advanced IP networking functionalities including Router and IP Pass-Through modes

High Performance Dual-Polarized MIMO Antenna for Maximum Bandwidth and Service Coverage

- Embedded dual-polarized antenna
- Optimize antenna design per band

Carrier-Grade Wireless-LAN

- Compliant with IEEE 802.11a/b/g/n and ac standards
- Simultaneous Dual-Band Wireless up to 2000Mbps
- 4x4 802.11a/n/ac (5GHz) and 2x2 802.11b/g/n (2.4GHz)
- High Transmit Power Design
- Wi-Fi Hotspot with Captive Portal
- Multiple SSID with Client Isolation

High Availability

- Automatic failover between Giga EWAN and/or 4G/LTE interfaces

Secure VPN Connections

- IPsec, PPTP, L2TP, GRE, OpenVPN

Designed for Challenging/Rugged Deployments

- IP67 hardened enclosure with industrial-grade components
- Designed for the toughest industrial environments
- Rugged compact design, deploys easily in space constrained areas
- Electrostatic discharge (ESD) & Surge protect

Lightweight, Compact and Unobtrusive Design

- Easily installed by single person
- Supports Power over Ethernet (PoE)

Package Includes PoE Injector and Mounting Kit

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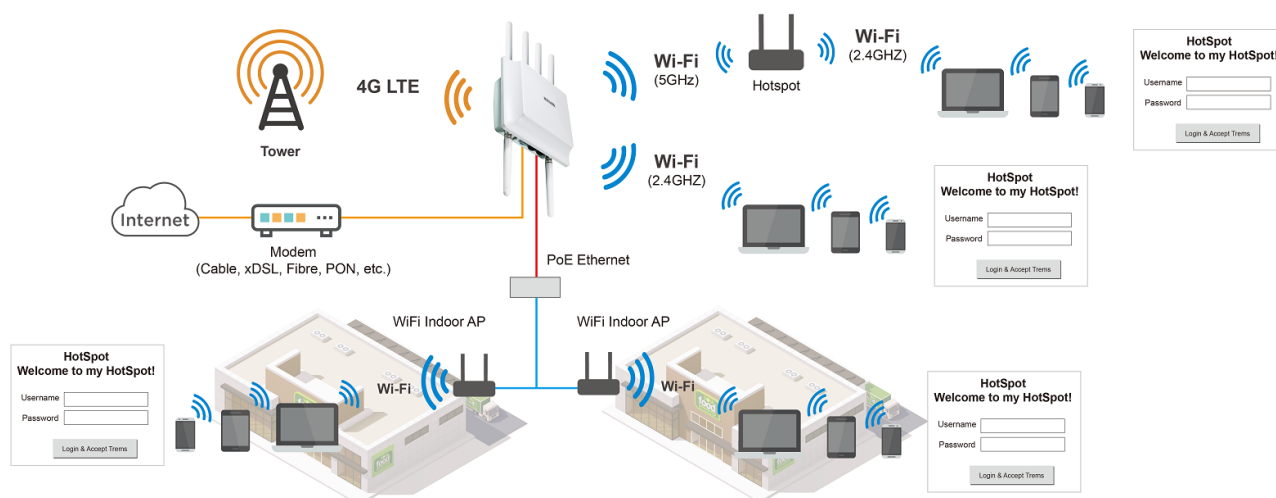


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Application Diagram



Features & Specifications

■ Embedded 4G/LTE*1

- Frequency bands and data rate depend on equipped LTE module.

■ 4G/LTE Antenna

- Embedded Dual-Polarized MIMO Antenna
- Optimize antenna design per band

■ Wi-Fi Antenna

- Four(4) External 5GHz N-Type antennas
- Two(2) External 2.4GHz N-Type antennas

■ Network Protocols and Features

- IPv4, IPv6, IPv4/ IPv6 dual stack*2
- Dual APN*2
- Keep Alive
- IP Pass-Through
- NAT, Virtual Server and DMZ
- Static Routing, Dynamic Routing (RIP-1/2, OSPF, BGP)
- SNTP, DNS relay and DDNS
- Universal Plug & Play (UPnP)
- Supports DHCP server/ client

■ 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

■ Secure VPN Connections

- IPSec
- PPTP
- L2TP
- GRE
- OpenVPN

■ Carrier Grade 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 1700Mbps wireless phy rate at 5GHz
- Up to 300Mbps wireless phy rate at 2.4GHz
- 64/128 bits WEP supported for encryption
- Wireless security with WPA-PSK, WPA2-PSK, Mixed WPA/WAP2-PSK, WPA-RADIUS(802.1x EAP), WPA2-RADIUS(802.1x EAP), Mixed WPA/WAP2-RADIUS(802.1x EAP)
- AP and WDS Operational Modes
- Multiple SSID (4 SSIDs), BSSID
- Wireless MAC Filtering
- Wireless Client Isolation
- Wi-Fi Hotspot with Captive Portal
- Support RADIUS authentication
- Wireless Client Rate-limiting

■ Management

- Password protection for system management
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via Web GUI
- TR-069(CWMP)*2, SNMP
- 3G/ 4G LTE Usage Allowance
- Syslog monitoring
- Physical layer/protocol diagnostic test tool

■ Hardware Specifications

Physical Interface

- Two(2) Gigabit Ethernet Interfaces
- PoE PD
- Six(6) Wireless N-Type Connectors with arrester
- SIM slot (for the SIM from Telco / ISP)
- Reset Button
- LED Indicators: Power/Boot, LAN(PoE), EWAN, Wi-Fi(5GHz/ 2.4GHz), LTE RSSI, and Internet

Physical Specifications

- Dimensions: 270 x 270 x 125.8 mm
- Weight: 2.76kg
- IP-67 grade enclosure

Operating Requirements

- Operating: -40°C to 60°C
- Storage: -40°C to 65°C

Surge/ESD Protections

- Surge Protection: K.21 common mode $\pm 6KV$
- ESD Protection: Contact: $\pm 8KV$ / Air: $\pm 15KV$

* Notes:

1. The 4G/LTE is dependent on your local service provider.
2. Only upon request for Telco/ ISP tender projects.
3. Specifications in this datasheet are subject to change without prior notice.

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