


**4G/LTE
Embedded**


BiPAC 4700ZU / BiPAC 4700ZUL

4G LTE Outdoor Router Broadband Access without Boundaries

The Billion BiPAC 4700ZU(L) 4G LTE Outdoor Broadband Router supports the latest generation of LTE fixed wireless networks providing connectivity for homes, businesses, rural and underserved areas. The BiPAC 4700ZU(L) integrates a high performance device with an embedded LTE module and advanced IP networking features enabling support of multiple high bandwidth applications at peak speeds up to 100Mbps downlink and 50Mbps uplink.

Homes and businesses with a weak or nonexistent wireless signal can benefit from the extended range and reach of the BiPAC 4700ZU(L). MIMO antenna technology allows service providers to select the optimal solution for their environment or application whether LOS (Line of Sight) or NLOS (Non-Line of Sight). Physical size and weight were key design considerations of the BiPAC 4700ZU(L). It can be mounted directly on exterior walls, chimneys, lightweight poles and used for retrofitting applications such as the replacement of older generation wireless technology.

The BiPAC 4700ZU supports comprehensive and robust IPSec VPN (Virtual Private Network) protocols for business users to establish private encrypted tunnels over the public Internet to secure data transmission between headquarters and branch offices. It also supports VPN dial in from smart phones for secure remote Internet connection via your home broadband. With a built-in DES/3DES VPN accelerator, the router enhances IPSec VPN performance significantly.

The BiPAC 4700ZU(L) is an industrial-grade outdoor fixed wireless router with an IP67 rated enclosure to withstand extreme weather conditions and harsh rugged deployments. In addition to outdoor, it can be installed in environments such as: manufacturing plants, industrial automation, stadiums, convention halls, stadium facilities, school campuses or virtually any venue requiring a robust wireless solution. Easy Installation is realized with integrated IEEE 802.3at Power over Ethernet (PoE) support, eliminating the need for separated power and data cables.

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High Performance and Fully Supports for Multiple LTE Frequency Bands

- Category 4 UE, data rates of up to 150Mbps (DL) / 50Mbps (UL) *1
- Advanced IP networking functionalities including bridge and router modes

MIMO Antenna for Maximum Bandwidth and Service Coverage

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

Designed for Challenging/Rugged Deployments

- IP67 hardened enclosure with industrial-grade components
- Designed for the toughest industrial environments

Lightweight, Compact and Unobtrusive Design

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

Package Includes PoE Injector and Mounting Kit



Application Diagram



Features & Specifications

General Features

- **Embedded 4G LTE**
 - LTE (Cat.4) peak data rate*1: DL up to 150Mbps and UL up to 50Mbps
- **High Performance LTE Antenna**
 - Embedded dual-polarized antenna
 - Optimize antenna design per band
- **Operational Mode**
 - Bridge or Routed mode

Features (Routed Mode)

- **Network Protocols and Features**
 - Dual APN*2
 - IPv4, IPv6, IPv4/IPv6 dual stack
 - NAT, Static Routing and RIP-1/2
 - Virtual Server and DMZ
 - SNTP, DNS relay and DDNS
 - IGMP Snooping and IGMP Proxy
 - Supports DHCP server/client/relay
- **Quality of Service Control**
 - Traffic prioritization based on Protocol, Port number and IP address
- **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
 - Password protection for system management
 - VPN pass-through
- **Virtual Private Network (BiPAC 4700ZU only)**
 - IPSec
 - PPTP
 - L2TP
 - GRE

Management

- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via web-based GUI
- TR-069, SNMP
- Syslog monitoring

Hardware Specifications

Physical Interface

- Giga Ethernet LAN with IEEE 802.3at compliant PoE P.D
- SIM slot (for the SIM from Telco/ISP)
- LED Indicators: Power, LAN (PoE), LTE, and Internet

Physical Specifications

- Dimensions: 8.5" (W) x 7.5" (H) x 3.0" (D) (257mm x 227 mm x 91mm)
- Weight: 1.81kg (4lbs)
- IP-67 grade enclosure

Operating Requirements

- Operating temperature: -40°C to 60°C (-40°F to 140°F)

* Notes:

1. The 4G LTE data rate is dependent on your local service provider.
2. Dual APN is not supported on some specific SKU, please confirm it with our sales.
3. Specifications in this datasheet are subject to change without prior notice.