BILLION®

4G/LTE
Embedded

BiPAC 4700ZU-OM / 4700ZUL-OM

4G LTE Outdoor VPN Router / 4G LTE Outdoor Router

Broadband Access without Boundaries

The Billion BiPAC 4700ZU-OM/ 4700ZUL-OM 4G LTE Outdoor Broadband VPN Router supports the latest generation of LTE fixed wireless networks providing connectivity for homes, businesses, rural and underserved areas. The BiPAC 4700ZU-OM/ 4700ZUL-OM integrates a high performance device with an embedded LTE module and advanced IP networking features enabling support of multiple high bandwidth applications.

Homes and businesses with a weak or nonexistent wireless signal can benefit from the extended range and reach of the BiPAC 4700ZU-OM/ 4700ZUL-OM. Omni-Directional antenna is suitable for multi-path environment and more easier of installation. Physical size and weight were key design considerations of the BiPAC 4700ZU-OM/ 4700ZUL-OM. 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-OM/ 4700ZUL-OM 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.

Easy Installation is realized with integrated IEEE 802.3at Power over Ethernet (PoE) support, eliminating the need for separate power and data cables.

High Performance and Fully Supports for Multiple LTE Frequency Bands
- High performance 4G/LTE module [1]
- Advanced IP networking functionalities including bridge and router modes

Omni-Directional antenna
- Ease of installation
- Suitable for multi-path environment

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
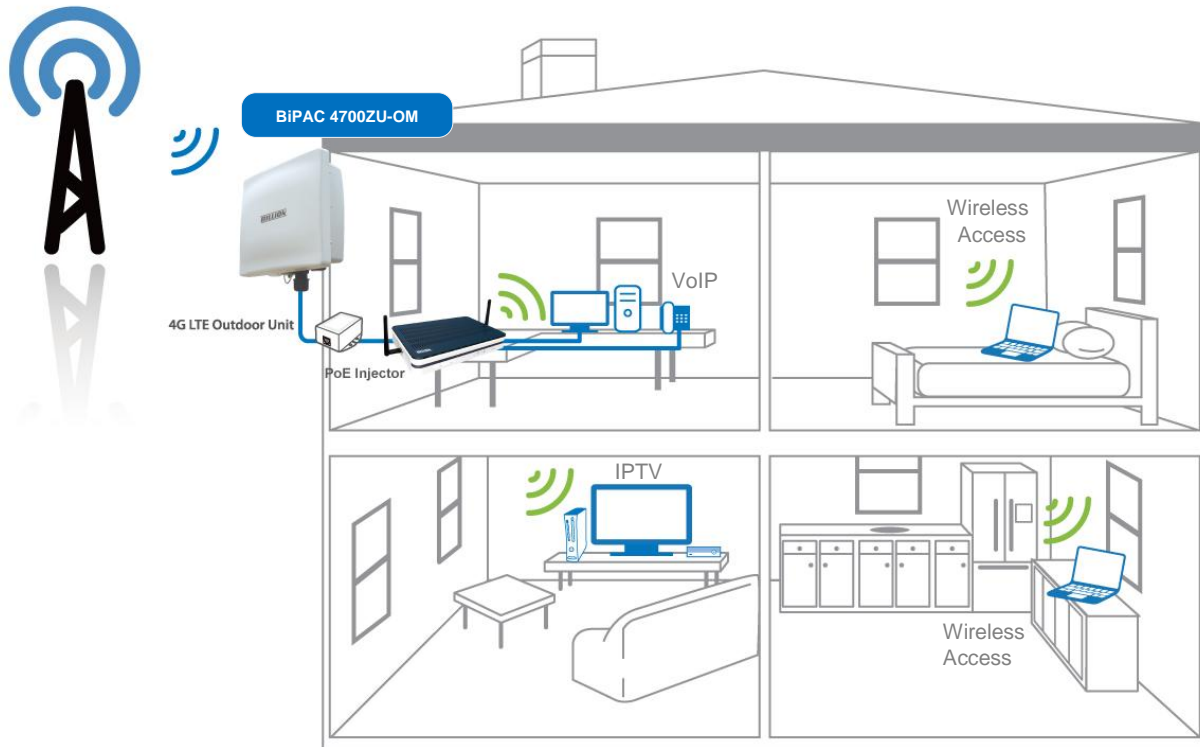- Supports Passive Power of Ethernet (PoE)

Secure VPN Connections
(BiPAC 4700ZU-OM only)
- IPSec, PPTP, L2TP, GRE, OpenVPN

Package Includes PoE Injector and Mounting Kit

Application Diagram

BiPAC 4700ZU-OM

4G LTE Outdoor Unit

PoE Injector

VoIP

Wireless Access

IPTV

Wireless Access

Features & Specifications

General Features

■ Embedded 4G LTE*1
- Embedded high performance 4G/LTE module
- Supported frequency bands: (4G/LTE)
  LTE-FDD: B1(2100MHz), B3(1800MHz),
    B5(850MHz), B7(2600MHz),
    B8(900MHz), B20(800MHz),
    B28(700MHz), B32(1500MHz),
  LTE-TDD: B38(2600MHz), B40(2300MHz),
    B41(2500MHz)
- Supported 2xCA:
  B1+B1/B5/B8/B20/B28,
  B3+B3/B5/B7/B8/B20/B28,
  B7+B5/B7/B8/B20/B28,
  B20+B32; B38+B38,
  B40+B40, B41+B41
- Supported data rate: (4G/LTE)
  LTE-FDD: Max 300Mbps/ 50Mbps (DL/ UL)
  LTE-TDD: Max 226Mbps/ 28Mbps (DL/ UL)
- Downlink MIMO support(2x2, 4x2)

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

■ Operational Mode
- Bridge or Routed mode

Features (Routed Mode)

■ Network Protocols and Features
- IPv4, IPv6, IPv4/ IPv6 dual stack *2
- Dual APN*3
- 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

■ 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

■ Secure VPN Connections (BiPAC 4700ZU-OM only)
- IPSec
- PPTP
- L2TP
- GRE
- OpenVPN

■ Management
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via web-based GUI
- TR-069*2, SNMP
- Syslog monitoring
- 3G/ 4G LTE usage allowance

■ Hardware Specifications
Physical Interface
- Giga Ethernet LAN with IEEE 802.3at complaint 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 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.

v.20171204-ep06e

www.billion.com