BILLION®

4G/LTE Embedded

LTE 4700ZUL

4G/LTE Outdoor Router

Broadband Access without Boundaries

The Billion LTE 4700ZUL 3G/4G LTE Outdoor Broadband Router supports the latest generation of LTE fixed wireless networks providing connectivity for homes, businesses, rural and underserved areas. The Billion LTE 4700ZUL integrates a high performance device with an embedded LTE module and advanced IP networking features enabling support of multiple high bandwidth applications at peaks 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 Billion LTE 4700ZUL. Multiple MIMO antenna technology options allow 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 Billion LTE 4700ZUL. 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 Billion LTE 4700ZUL 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 802.3af Power over Ethernet (PoE) support, eliminating the need for separated power and data cables.

High Performance and Fully Supports for Multiple LTE Frequency Bands
- Category 3 UE, data rates of up to 100Mbps (DL)/50Mbps (UL)
- Advanced IP networking functionalities including bridge and router modes

Multiple MIMO Antenna Options for Maximum Bandwidth and Service Coverage
- Embedded dual-polarized antenna
- Omni-directional external (Optional)
- Optimize antenna design per band

Lightweight, Compact and Unobtrusive Design
- Multiple mounting options, easily installed by single person
- Supports Passive Power of Ethernet (PoE)
- Can be installed virtually anywhere

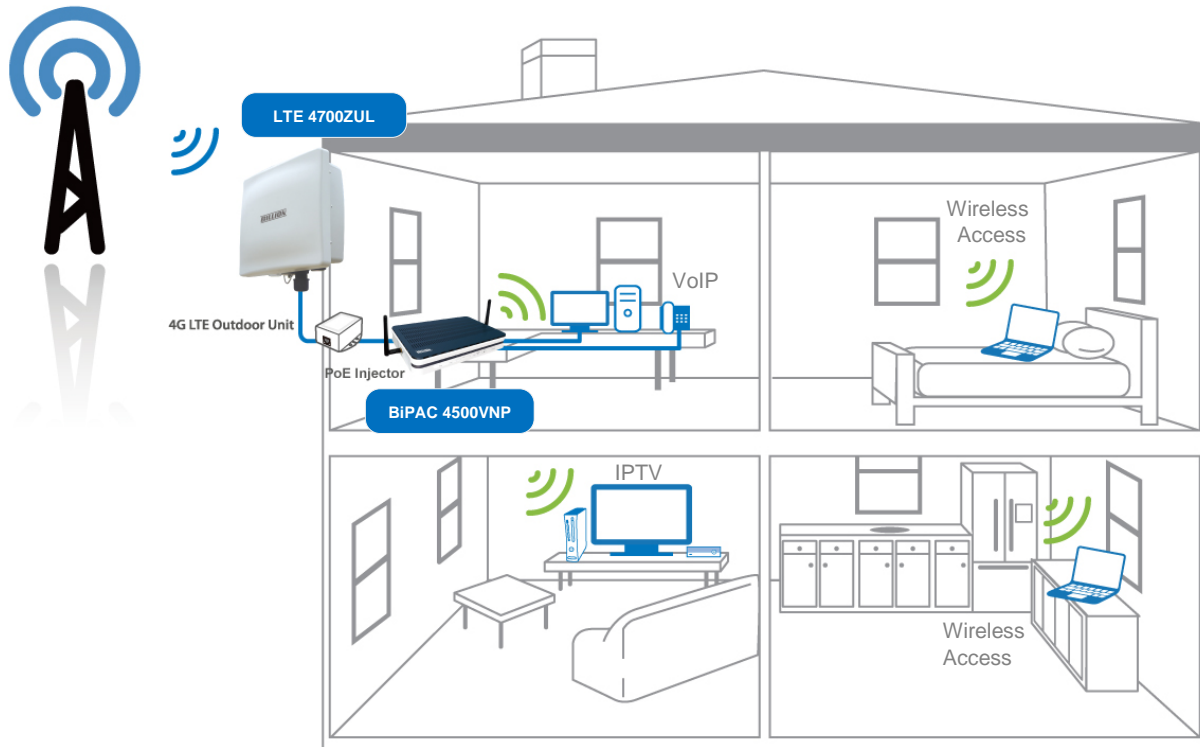### Designed for Challenging/Rugged Deployments
- IP67 hardened enclosure with industrial-grade components
- Designed for the toughest industrial environments

Patented Dual-Pol Dual Polarization Antenna Technology for Faster and Efficient Bi-Directional Transmission
- H-Plane and V-Plane polarization
- Precise alignment achievable with multi-angle, multi-position pole mount brackets
- Simplicity and high isolation for stable and reliable connections

Package Includes PoE Injector and Mounting Kit

Application Diagram

LTE 4700ZUL

4G LTE Outdoor Unit

PoE Injector

BiPAC 4500VNP

VoIP

Wireless Access

IPTV

Wireless Access

Features & Specifications

General Features

■ LTE Antenna Options
- Embedded MIMO directional
  (700MHz): 6~8dBi
  (1700 ~2100MHz): 10~13dBi
- Detachable MIMO N-Type: (optional)
  (700MHz): 5dBi
  (1700~2100MHz): 9dBi

■ Embedded 4G LTE
- Supported LTE frequency bands*:
  B1 (2100MHz), B3 (1800MHz), B7
  (2600MHz), B8 (900MHz), B20 (800MHz)
- LTE (Cat. 3) peak data rate:
  Downlink (DL) up to 100Mbps and uplink
  (UL) up to 50Mbps (Depends on carrier
  network support)

■ Operational Mode
- Bridge mode or routed mode

Features (Routed Mode)

■ Network Protocols and Features
- NAT, static routing and RIP-1/2
- NAT supports PAT and multimedia applications
- Virtual server and DMZ
- SNTP, DNS relay and DDNS
- IGMP snooping and IGMP proxy
- Supports DHCP server/client/relay

■ Quality of Service Control
- Supports the DiffServ approach
- 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

■ Management
- Web-based GUI for remote and local
  management
- Firmware upgrade and configuration data
  upload and download via web-based GUI*
- TR-069 supports remote management
- Syslog monitoring

■ Hardware Specifications
Physical Interface
- 10/100 Ethernet LAN with IEEE 802.3af
  complaint PoE P.D
- SIM slot (for the SIM from Telco/ISP)
- LED Indicators: Power, LAN (PoE), Boot,
  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. Specifications in this datasheet are subject to change without prior notice.
3. Different SKU has different band combinations, please confirm it with our sales.
4. The prefix of model name - LTE is equal to BiPAC

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