

# ZYXEL



## LTE7460-M608

### 4G LTE-A Outdoor Router

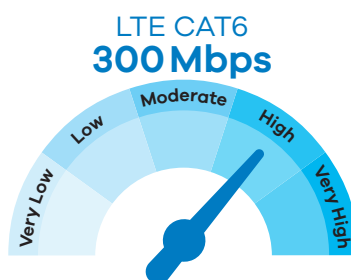
As mobile devices such as smart phones and tablets consume more wireless broadband, the crowded bandwidths have become a big issue to operators. Mobile broadband is a better solution than fixed-line broadband for its lower investment and faster deployment. However, since fixed lines have been the major broadband infrastructure in most places of the world for a long time, people are already using fixed lines for broadband Internet connection in most cases. Migrating from fixed lines to mobile broadband may need extensive evaluation, however adding mobile broadband as a backup for better performance or stability could be an easier decision.

The Zyxel LTE7460-M608 4G LTE-A Outdoor Router comes with what the critical feature, “the second WAN”, needs – flexible routing mode with both bridge and router functions, high-gain antenna for better signal and performance as well as robust IP65 outdoor hardware designed for harsh environments. No matter you have a router device or not, the LTE7460-M608 can be easily deployed and integrated into your existing environment. You can set LTE as your main connection or use LTE as a backup when performance of the main connection drops. The LTE7460-M608 is good for any venue like suburban areas, public locations, homes and offices. Enjoy LTE technology with minimum effort with the LTE7460-M608.

### Benefits

#### State-of-the-art technology

The Zyxel LTE7460-M608 4G LTE-A Outdoor Router employs 3GPP Release 10, Category 6 – the best-practice LTE technology with 300/50 Mbps (DL/UL) data rates through carrier



Ultra fast Internet with Cat 6 LTE with carrier aggregation



Download speeds of up to 300 Mbps



Embedded bridge/router mode



Built-In multi-band, high-gain antenna of up to 8 dBi



Standard 802.3af Power of Ethernet (PoE)



IP 65 hardened enclosure with Industrial grade components

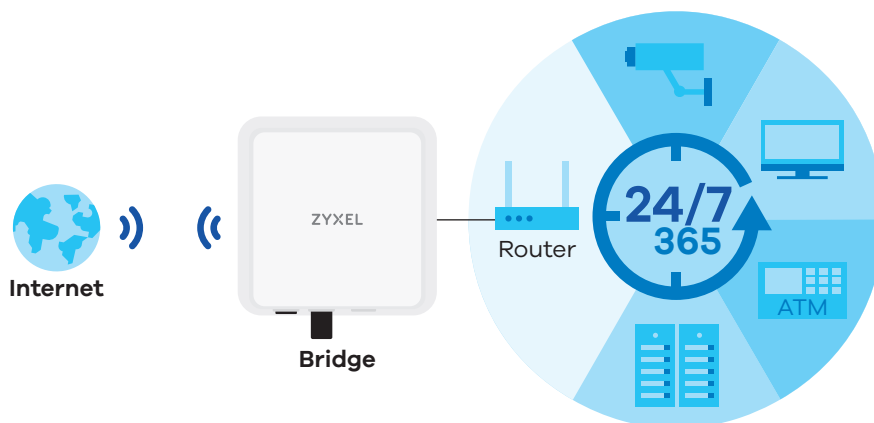
aggregation approbation. It also supports 3G/2G networks with the up-to-date "Dual Carrier HSPA+ (DC-HSPA+)" technology with 42/5.76 Mbps (DL/UL) data rates. You can

enjoy ultra-fast, flexible wireless connection anywhere within the LTE/3G/2G signal coverage.

### Embedded bridge/router mode adapts to all kinds of devices/gateways

For better network integration, Zyxel embeds both bridge and router modes into the LTE7460-M608. While users can take advantage of the built-in routing functions in all typical applications, the bridge mode is designed to work with users' existing or preferred devices such as

high-end Wi-Fi Access Points, Small Business Gateways or Enterprise Gateways. With the two built-in modes, the Zyxel LTE7460-M608 can be easily integrated with all kinds of devices/gateways.



### Built-In multi-band antenna

Zyxel's LTE7460-M608 4G LTE-A Outdoor Router provides multi-band embedded antennas of up to 7 dBi that work effectively in outdoor environments. The outdoor-friendly

design makes it possible to work in near non-line-of-sight conditions where desirable signal strength was difficult to achieve.



### Software upgrades over-the-air

Through the LTE radio interface, the Zyxel LTE7460-M608 supports TR-069 has full over-the-air configuration and

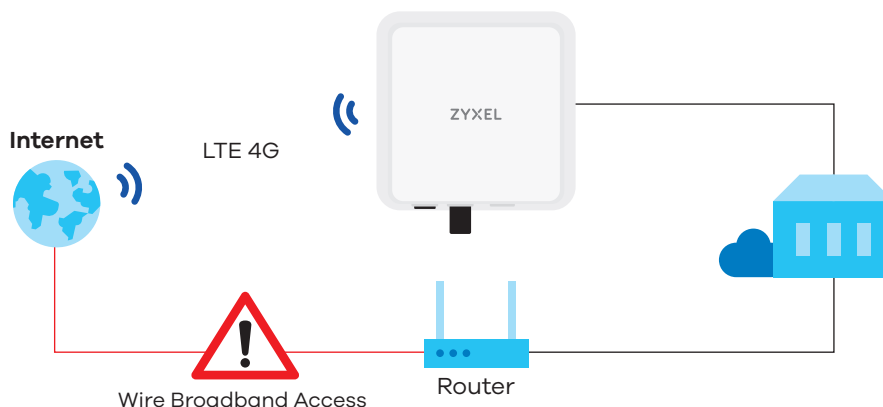
software upgrade capability through events triggered by the operators.



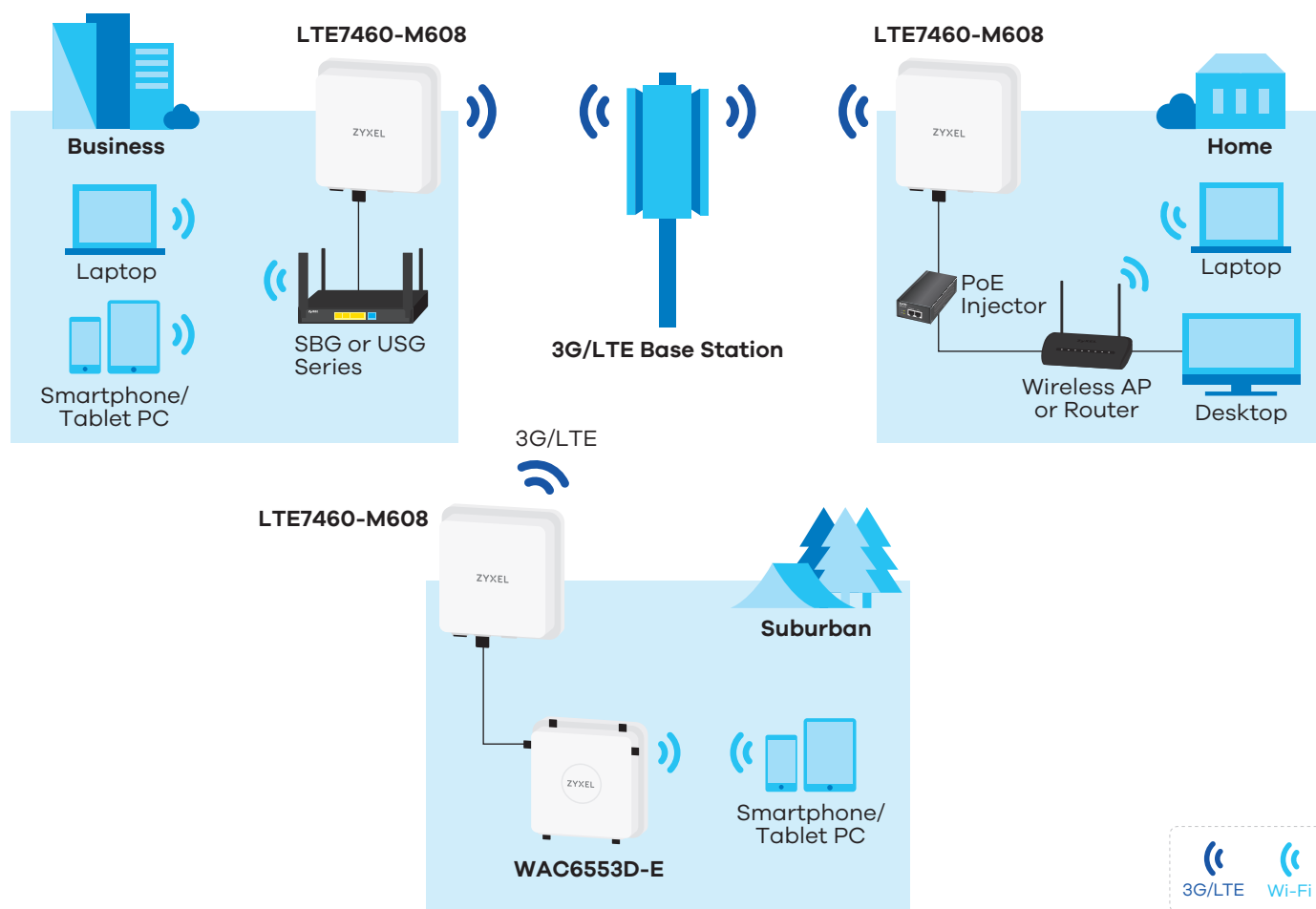
## Non-stop connectivity with LTE 2nd WAN for fail-over

Multi-WAN fail-over relieves the risk of network outage caused by dependence on single-WAN technology. Even better, LTE is wireless so you can get the second WAN without an additional cabling plan. As long as the gateway

supports "multi-WAN fail-over", you can just connect the Zyxel LTE7460-M608 to the existing gateway and set LTE as the fail-over WAN.



## Application Diagram



# Specifications

## System Specifications

### IP Networking

- Support IPv4/IPv6 dual stack (NDP IPv6)
- DHCP server
- ICMP supported
- Bridge/Router mode supported
- Virtual Private Network (VPN) pass through

### Network Address Translation (NAT) Traversal

- Support NAT/NAPT
- Support DMZ
- Support port forwarding
- Support ALG
- Support DDNS

### IP Firewall

- DoS Attack Prevention
- Support SPI
- Application-Level Firewall (LAN to WAN such as FTP, HTTP, Telnet, Ping)

### Management

- Support Local/Remote Web management and web online firmware upgrade
- Support TR069 and TR069 remote firmware upgrade
- SMS management
- APN/PIN management
- PIN/PUK management
- Network selection
- Network preference
- Operating frequency band selection (support Cat 4 only)

## Hardware Specifications

### LTE Interface

- Standard compliant: 3GPP Release 10 Category 6
- Supported frequency:  
Band LTE 1/3/7/8/20/38/40 -  
LTE TDD 2300/2600 MHz  
LTE FDD 2600/2100/1800/900/  
800 MHz
- Carrier aggregation configuration:
  - B1+B1, B1+B8, B1+B20
  - B3+B3, B3+B7, B3+B8, B3+B20
  - B7+B7, B7+B8, B7+B20
  - B38+B38, B40+B40
- FDD LTE peak data rate:
  - 300 Mbps DL within 40 MHz bandwidth (CA)
  - 50 Mbps UL within 20 MHz bandwidth
- TDD LTE peak data rate:
  - 224 Mbps DL within 40 MHz bandwidth (CA)
  - 10 Mbps UL within 20 MHz bandwidth

### UMTS/EDGE/GPRS/GSM Air Interface

- Standard compliant: WCDMA Rel'99 and Rel'10 DC-HSPA+; GSM/GPRS/EGPRS Rel'99
- Supported frequency:
  - UMTS band 1/8
  - EDGE/GPRS/GSM band 2/3/5/8
  - DC-HSPA+ downlink data rate up to 42 Mbps
  - HSUPA uplink data rate up to 5.76 Mbps
  - UMTS data rate up to 384 kbps
  - EDGE data rate up to 236.8 kbps
  - GPRS data rate up to 85.6 kbps

### Antennas

- 2 embedded antennas of up to 7 dBi

### Power Specifications

- Standard 802.3 af power over Ethernet
- Power consumption at jack: < 10 W

## Physical Specifications

- Dimensions (WxDxH):  
254 x 255 x 58 mm
- Weight: 1.1 kg
- The mounting kits

## Environmental Specifications

- IP65 Enclosures

### Operating Environment

- Temperature:  
-40°C to 60°C (-40°F to 140°F)
- Humidity:  
5% to 95% (Non-condensing)

### Storage Environment

- Temperature:  
-40°C to 70°C (-40°F to 158°F)
- Humidity:  
5% to 95% (Non-condensing)

## Certification

- RF:
  - EN301511
  - EN301908-1
  - EN301908-2
  - EN301908-1
  - EN301908-13
- Safety:
  - EN62311
  - EN62209-2
- EMC:
  - EN55022
  - EN55024
  - EN301489-1-7-24

For more product information, visit us on the web at [www.zyxel.com](http://www.zyxel.com)

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