ZYXEL
COMMUNICATIONS

LTE7461-M602
4G LTE-A Outdoor Router

The Fixed Wireless Access (FWA) is an alternative means to provide Internet connectivity that utilizes wireless network technology rather than fixed lines. With a fixed wireless access offering, network operators can supply a vast amount of new customers with broadband Internet connectivity.

Zyxel LTE7461-M602 4G LTE-A Outdoor Router is 3GPP Cat. 6 router, with CA (Carrier Aggregation) to increase data rates and better network quality delivered by an LTE-A based solution. By delivering broadband over mobile networks, operators can rapidly increase revenue from the untapped markets.

The Zyxel LTE7461-M602 4G LTE-A Outdoor Router supports a routing mode with both bridge and router functions, high-gain antenna for better signal performance and robust IP68 outdoor hardware designed for harsh environments – all the necessary features that benefit the critical "second WAN" design. No matter you have a router or not, the LTE7461-M602 can be easily deployed and integrated into your existing environment.

You can set 4G LTE-A as your main connection or use LTE7461-M602 as a backup in case the performance of the main fixed internet connection drops. The LTE7461-M602 is good for any venue like suburban areas, public locations, homes, and offices. Enjoy LTE technology with minimum effort with the LTE7461-M602.

Download speeds of up to 300 Mbps*, UE Cat. 6

Built-In 2x2 MIMO, high-gain antenna of up to 8 dBi per element

Standard IEEE 802.3af/at Power over Ethernet (PoE)

IP68 hardened enclosure with industrial-grade components

Embedded bridge/router modes

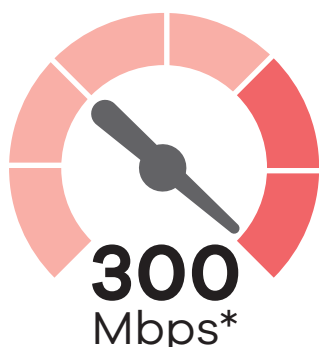Remote management and throughput testing

Zyxel mobile app (iOS and Android)

Datasheet LTE7461-M602

Benefits

Lightning-fast Internet connectivity

The Zyxel LTE7461-M602 4G LTE-A Outdoor Router employs 3GPP UE Category 6 – the best-practice LTE technology with downlink data rates of up to 300 Mbps* through 4 Spatial Streams on two component carriers.

300 Mbps*

Easy installation with Zyxel Air

The LTE7461-M602 comes with an IEEE 802.3af/at Power over Ethernet (PoE) and a subscriber app – Zyxel Air. The intuitive user interface of Zyxel Air provides the necessary assistance from device setup to routine management. You can minimize service calls during the installation process while enhancing a satisfying user experience.

Scan to Download

Zyxel Air

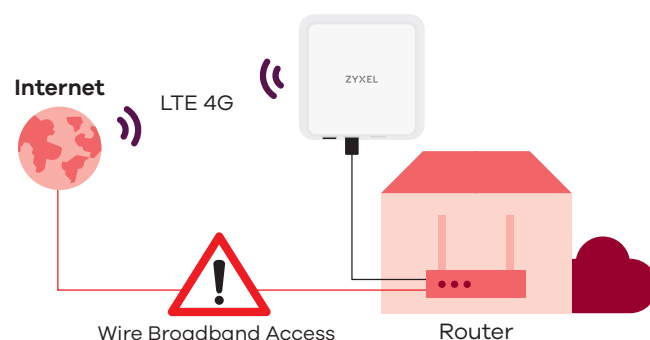Download on the App Store

GET IT ON Google Play

Built-In 2x2 MIMO high-gain antenna

The Zyxel LTE7461-M602 LTE-A Outdoor Router provides 2x2 MIMO high-gain antennas of up to 8 dBi per element that work effectively in outdoor environments. The outdoor design enables it to work under near non-line-of-sight conditions to increase coverage and bandwidth as well as to eliminate edge corners having difficulty accessing good signals.

Home/Indoor

Business

Non-stop connectivity with LTE 2nd WAN for failover

The wireless LTE allows you to take advantage of the 2nd WAN without a cabling plan. As long as the gateway supports "Multi-WAN failover", you can just connect Zyxel LTE7461-M602 to the existing gateway and set LTE as the failover WAN and relieves the risk of network outage due to the dependence on a single WAN connection.
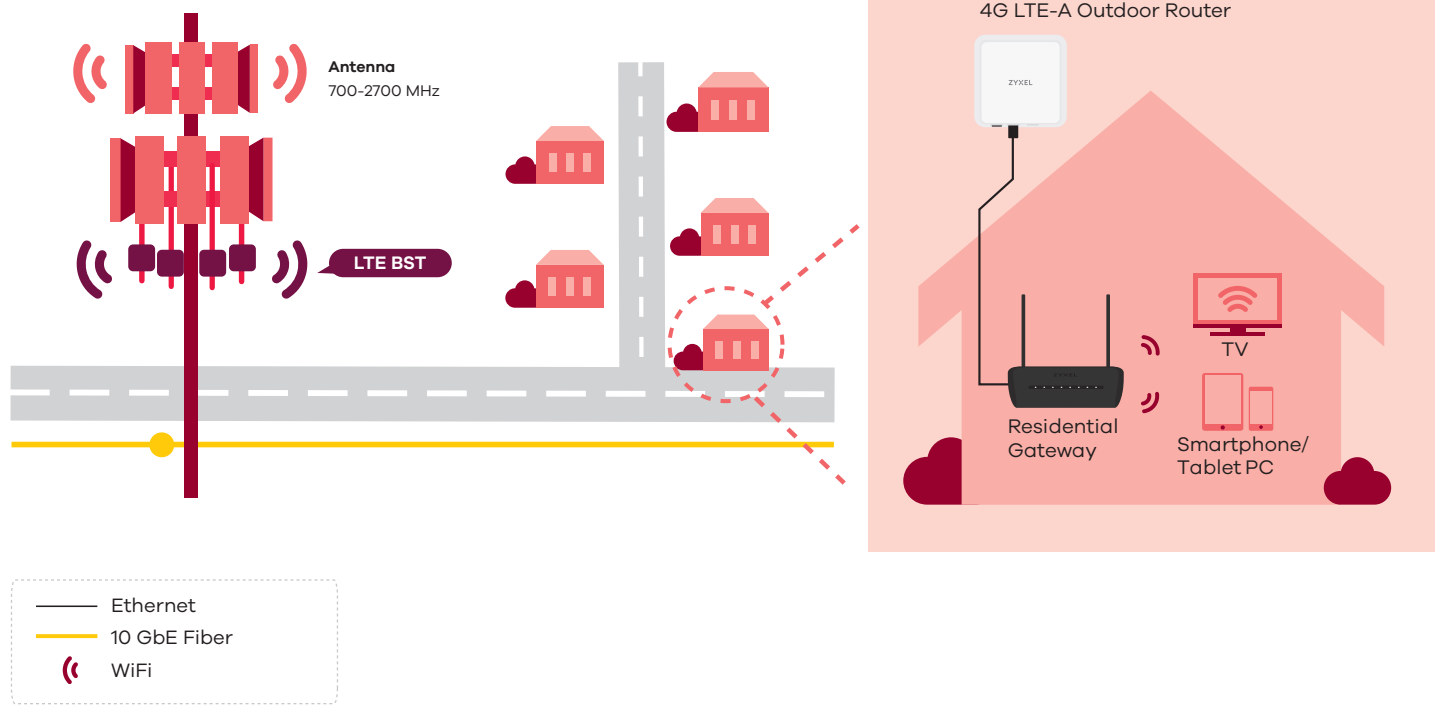

Internet

LTE 4G

Wire Broadband Access

Router

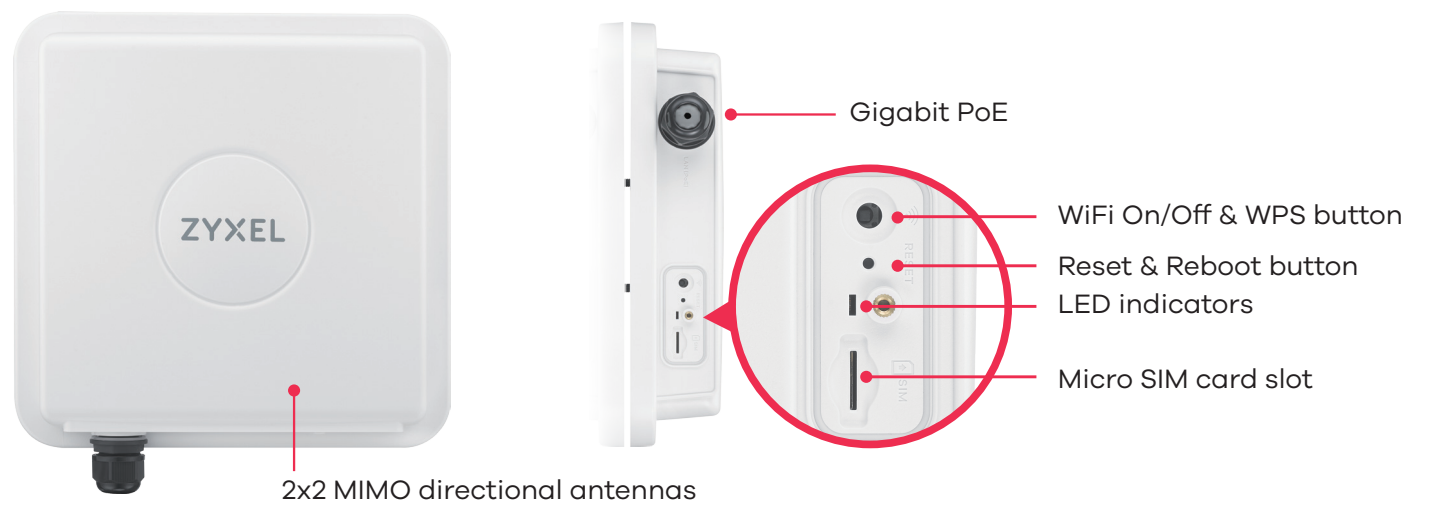## Remote management, TR-069, HTTP/Web GUI and FTP

Through the LTE radio interface, the Zyxel LTE7461-M602 supports TR-069, remote GUI and remote FTP to be fully configurable and software upgradeable through events triggered by the operators. Thanks to TR-143 remote throughput testing, the troubleshooting can be performed remotely with better efficiency. Additional support TR-069 with TR-181 issue-2 data model also enhances service providers' visibility on subscriber LAN networks for improved customer assistance.

Auto

Auto

Operators

Application diagram

Antenna
700-2700 MHz

LTE BST

LTE7461-M602
4G LTE-A Outdoor Router

TV

Residential
Gateway

Smartphone/
Tablet PC

— Ethernet
— 10 GbE Fiber
((WiFi

Interface description

ZYXEL

Gigabit PoE

WiFi On/Off & WPS button

Reset & Reboot button

LED indicators

Micro SIM card slot

2x2 MIMO directional antennas

Specifications

System specifications

IP networking
- Supports IPv4/IPv6 dual-stack (NDP IPv6)
- DHCP server
- ICMP supported
- Virtual Private Network (VPN) pass-through
- Supports NAT/NAPT
- Supports DMZ
- Supports port forwarding/triggering
- Supports ALG

Routing
- Supports bridge/router modes
- Supports dynamic DNS for first APN
- Supports remote management under bridge mode

IP firewall
- Firewall can be enabled or disabled via GUI
- DoS attack detection
- Supports SPI
- Application-level Firewall
- Filters LAN MAC address
- Filters LAN IP address
- Filters URLs

Management
- Supports local/remote device management and firmware upgrade via TR-069 and Web GUI
- APN management
- PIN/PUK management
- Network selection
- Network preference
- Operating frequency band selection
- CLI/SSH (local and remote SSH access)
- Supports UPNP IGD
- Supports SSH with key access
- Supports bandwidth management
- Supports Zyxel Air app (iOS and Android) for easy installation
- Supports remote throughput testing (TR-143)
- Supports Band Pilot system management

Hardware specifications

LTE interface
- Standard-compliant: 3GPP UE Category 6
- Supports LTE bands: 2/4/5/7/12/13/25/26/29/66
- Supports WCDMA bands: 2/4/5
- Peak data rate: LTE-FDD: max 300 Mbps (DL) max 50 Mbps (UL)*
- 2 DL Carrier Aggregation combination: B2+B2/B5/B12/B13/B26/B29; B4+B4/B5/B12/B13/B26/B29; B7+B5/B7/B12/B13/B26/B29; B25+B5/B12/B13/B25/B26/B29; B66+B5/B12/B13/B26/B29/B66; (B29 is only for secondary component carrier)
- LTE antennas: 2 embedded directional antennas of up to 8 dBi/element (2x2 MIMO)
- Supports DL modulation QPSK, 16-QAM, 64-QAM
- Supports UL modulation QPSK and 16-QAM
- Max EIRP 30 dBm

Power consumption
- 13 watt (peak) – at PoE

Physical specifications

Hardware interface
- One GbE RJ-45 PoE LAN port
- One tri-color LED indicator for
  - Power status
  - Internet status
  - WiFi status
- One WiFi On/Off and WPS button
- One 3FF micro SIM card slot
- One Reset & Reboot default button

Power interface
- Standard IEEE 802.3af/at PoE PD support compatible

WiFi interface for management
- 802.11 n/g/b, 2.4 GHz
- Hidden SSID
- MAC address filtering
- 2x2 embedded antennas
- For local management purpose only

Physical specification
- Dimensions (WxDxH): 254 x 255 x 58 mm (9.99" x 10.03" x 2.28")
- Weight: 1100 g (2.43 lb.)
- Package dimensions (WxDxH): 420 x 280 x 108 mm (16.54" x 11.02" x 4.25")
- Package weight: 3050 g (6.72 lb.)

Environmental specifications

Ingress protection rating
- IP68

Lightning protection
- K.21 enhanced mode, 6 kV

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

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

Certification
- FCC/IC/AT&T/Verizon

Package contents
- Gigabit PoE injector with LED indicator
- Ethernet cable
- Power cord
- Cable gland
- Quick Start Guide
- Wall/pole mounting kit

* The maximum wireless data transfer rate is derived from 3GPP specifications close to UE Category 6. The actual data transfer rate will vary from network environment including distance, network traffic, building site materials /construction, interference from other wireless devices, and other adverse conditions.

Datasheet LTE7461-M602

22/06/22