



LTE7461-M602

4G LTE-A Outdoor Router

Easily Expand Connection with Reliable Signal

Zyxel LTE7461-M602 4G LTE-A Outdoor Router is a 3GPP Cat. 6 router with Carrier Aggregation (CA) capability. It provides economic and reliable cellular broadband connection either in bridge or router mode. The LTE7461-M602 can be the main Internet access or a backup secondary WAN option if the primary fixed-line disconnects. In suburban/rural areas or where fixed-line is difficult to deploy, the LTE7461-M602 is the perfect option for rapid Internet deployment for public spots, homes, and offices. Enjoy 4G LTE-Advanced technology with the LTE7461-M602.

Benefits

Effortlessly Monitor All Devices Anytime Anywhere at Any Scale

LTE7461-M602 Outdoor Router has two variants, LTE7461-M602 for on-premise solution and Nebula LTE7461-M602. If your deployment requires on-premise solution without the need for cloud monitoring for device status, LTE7461-M602 is the device for you. Nebula LTE7461-M602 allows it to deliver consistent high-quality network connectivity for business-critical operations by Nebula cloud solution anytime anywhere with ease. Centrally provisioning and seamlessly managing all endpoint devices including: access points, switches, and firewalls within your organization across distributed locations from the Nebula platform, while keeping your network aware of constantly changing devices.



Nebula cloud management for Nebula LTE7461-M602 only



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 802.3at Power over Ethernet (PoE)



IP68 hardened enclosure with industrial-grade components



Embedded bridge/router modes



Free app for finding the best installation signal spot

Seamless Integration, Non-Stop Reliability

Embedded flexible routing mode with both bridge and router functions, the LTE7461-M602 is adaptive to any existing network whether a router or gateway is in place or not. Set LTE as your main broadband connectivity or use it as a backup for critical applications when fixed-line drops in performance.



Designed for all of Environments

LTE7461-M602 is designed with IP68 rating for outdoor water-proof and dust-proof capability. Get high-quality connection with its high gain directional antennas up to 8dBi even in adverse weather conditions. Its outdoor-friendly design makes it possible to work in harsh environments/locations such as warehouses or factories where IoT devices require LTE connectivity for data connection.

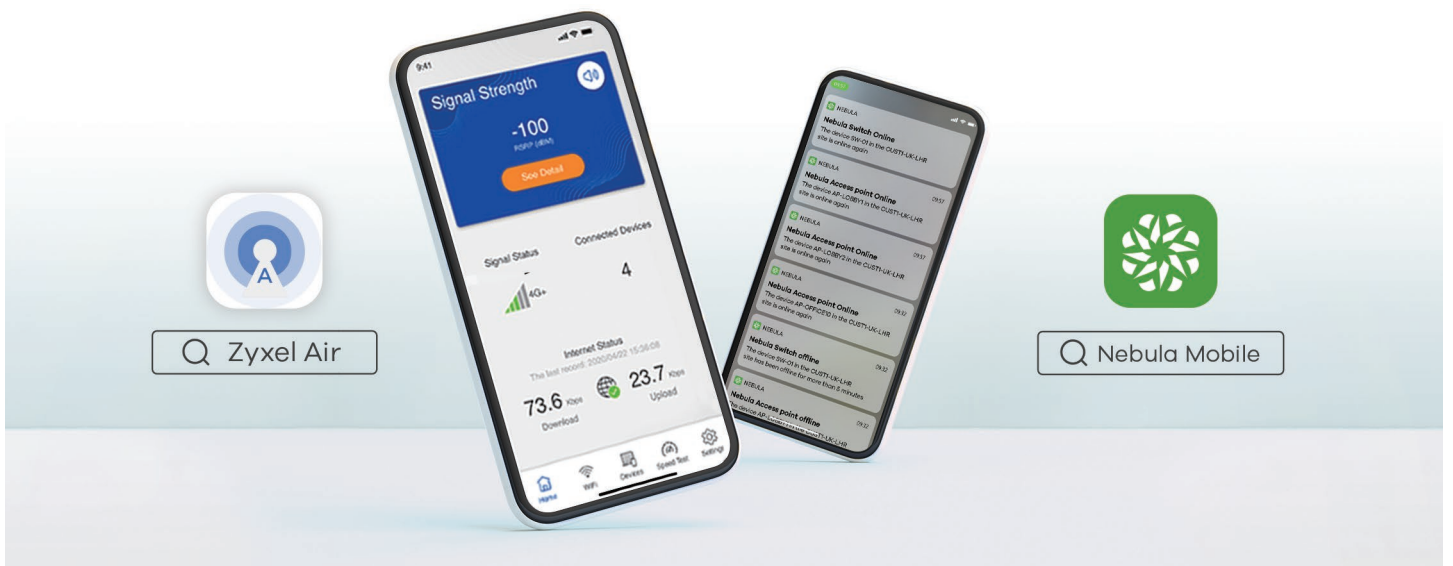


Easy and Instant Installation

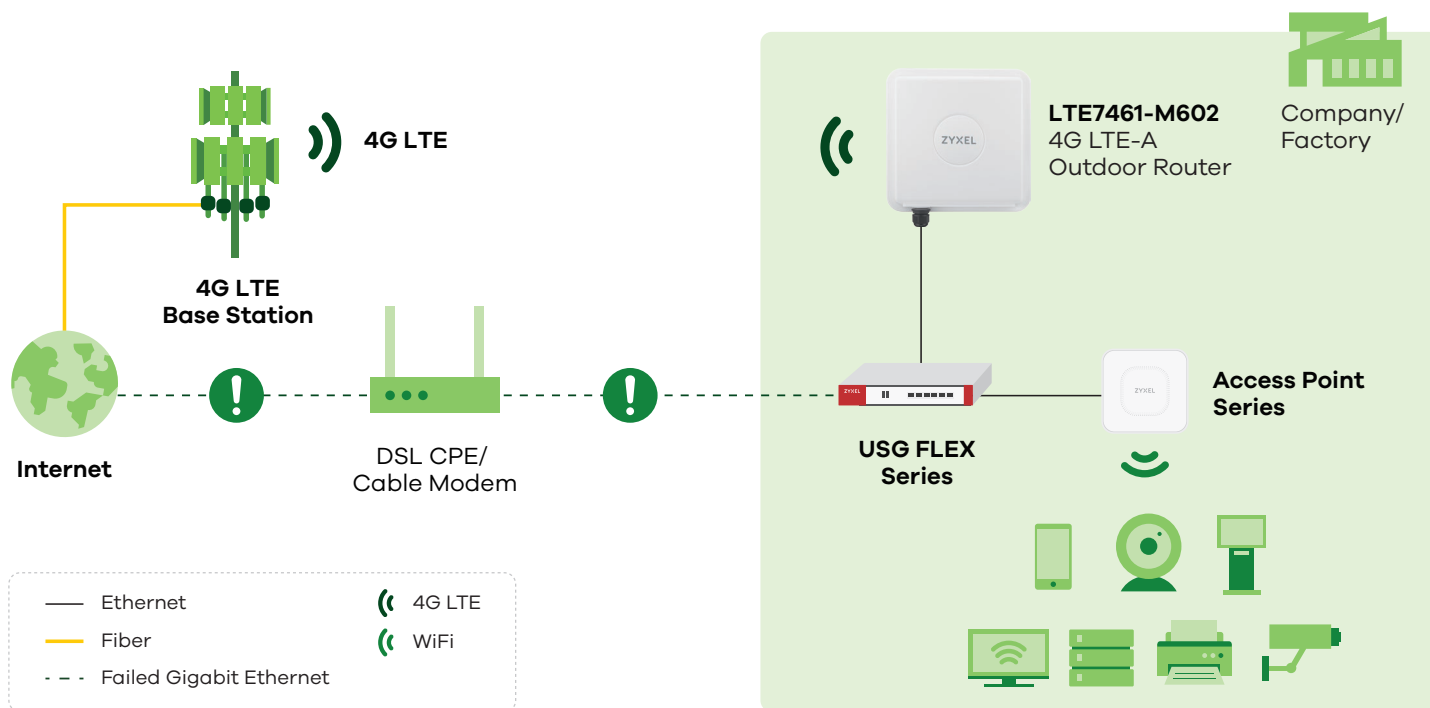
No electrician required, just a simple DIY installation app needed. Finding the best signal spot for installation is easy, just use a smartphone or tablet to connect to LTE7461's WiFi network and follow its configuration instruction with the free "Zyxel Air" app. Comes with flexible wall and pole mounting options. Integrated Power over Ethernet (PoE) support makes powering the device simple!

Easy Remote Management with Nebula App

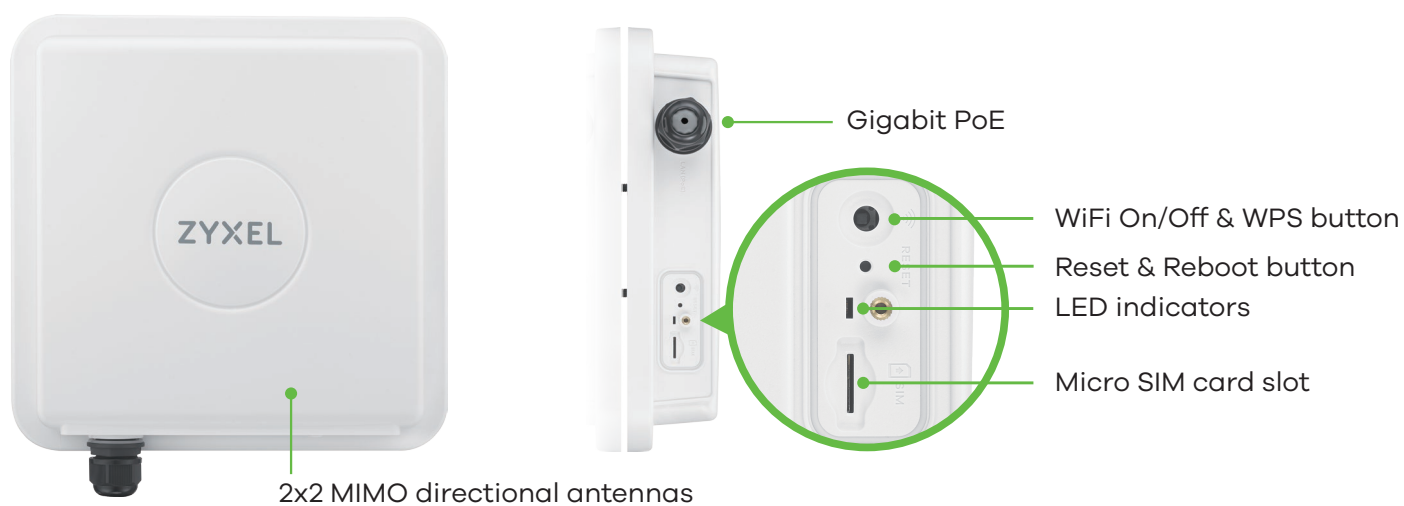
Nebula Cloud Management enables system integrators to easily remote manage through operator's mobile broadband network without leasing a DSL landline to resolve common Network Address Translation (NAT) issues in cellular networks. Scan a device QR code with Nebula Mobile App to register your device on Nebula, check the device status, and get an overview information. Nebula Mobile App is designed for your management and troubleshooting needs for your network.



Application Diagram



Interface description



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 mobile app (iOS and Android)
- Supports remote throughput testing (TR-143)
- LTE Band Pilot System management compatible

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.

Nebula LTE7461-M602 License Pack



nebula

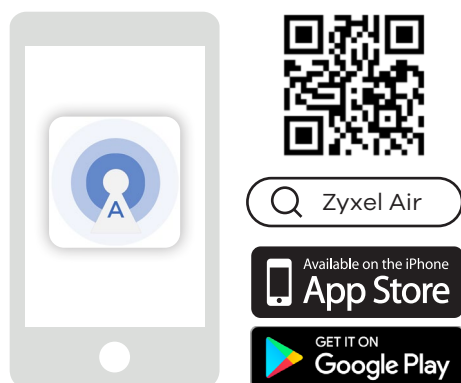
Nebula offers flexible options that match your requirements, whether you are looking for a complimentary option giving you some peace of mind at no extra cost more control over your network updates and visibility, or even the most advanced management of cloud networking, Nebula is here to help you. The plan you choose will determine the service level of Nebula Cloud.

Feature Name	Base Pack	Plus Pack	Pro Pack
Unlimited Registration & Central Management (Configuration, Monitoring, Dashboard, Location Map & Floor Plan Visual) of Nebula Devices	●	●	●
Over-the-air Firmware Management	●	●	●
Admin Accounts per Organization (Full Access for Administration Rights)	5	8	No Limit
Advanced Firmware Scheduling (Org/Site/Device)		●	●
Automatic Network Topology (Visual and Actionable)		●	●
Email users and alert Notifications		●	●
Organizational User Audit / Change Logs			●
Configuration Backup/Restore			●
Priority Nebula Support Request (Direct NCC incl. Web Chat)			●

* Only available for Nebula LTE7461-M602 model

** Search [Nebula Control Center](#) for more Nebula license plan

Zyxel Air App



Nebula Mobile App



* Only available for Nebula LTE7461-M602 model

Ordering Information

Model	Part Number	Description
LTE7461-M602	LTE7461-M602-US01V2F	4G LTE Outdoor Router
Nebula LTE7461-M602	LTE7461-M602-USZNN1F	Nebula cloud-managed 4G LTE Outdoor Router

For more product information, visit us on the web at www.zyxel.com

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