



## LTE7480-S905

### 4G LTE-A Outdoor Router

Zyxel LTE7480-S905 4G LTE-A Outdoor Router supports Cat. 16 and 3.5 GHz CBRS band by sharing their spectrums across legacy and new users. This provides your subscribers with a high-speed internet service and enables fast customer service without the reconstruction of wires.








### Benefits

#### Lightning-fast internet connectivity

The Zyxel LTE7480-S905 employs 3GPP UE downlink Category 16 – the best-practice LTE technology with downlink data rates of up to 580 Mbps through 8 spatial streams on two component carriers.

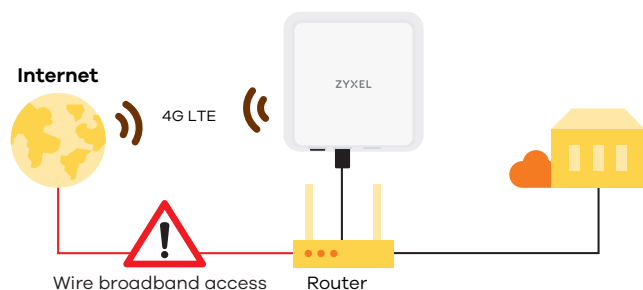
#### Built-in 4x4 MIMO high-gain antennas

The Zyxel LTE7480-S905 provides 4x4 MIMO high-gain antennas of up to 10 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.

-  Supports LTE band 48 (CBRS)
-  3GPP Release 12 Cat. 16/up to 580/30 Mbps\* (DL/UL)
-  Built-in 4x4 MIMO, high-gain antennas of up to 10 dBi per element
-  Standard 802.3af/at Gigabit PoE
-  Remote management via TR-069, TR-181, TR-143, HTTP/web GUI, and FTP
-  IP68 hardened enclosure with industrial-grade components
-  Zyxel Air app (iOS and Android)

## Non-stop connectivity with “Dual-WAN Failover” design

The wireless LTE allows you to take advantage of the 2<sup>nd</sup> WAN without a cabling plan. As long as the gateway supports “Dual-WAN Failover”, you can just connect Zyxel LTE7480-S905 to the existing gateway and set LTE as the failover WAN and relieve the risk of network outage.



## Easy installation with Zyxel Air

The LTE7480-S905 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.



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

With TR-069, TR-181 and TR-143 support, the Zyxel LTE7480-S905 effectively secures OPEX by reducing the frequency of on-site support and by providing simplified diagnostic, configuration and troubleshooting processes.

## Specifications

### System specifications

#### IP networking

- Supports IPv4/IPv6 dual-stack (NDP IPv6)
- DHCP server
- Supports ICMP
- 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
- CLI/SSH (local and remote SSH access)
- Supports UPNP IGD
- Supports SSH with key access

- Supports bandwidth/quota management
- Supports Zyxel Air app (iOS and Android) for easy installation
- Supports remote throughput testing (TR-143)
- Supports Band Pilot system management

### Hardware specification

#### LTE interface

- Standard-compliant: 3GPP UE Category 16
- Supports LTE band 48 (CBRS)(LTE TDD 3550-3700 MHz)
- Supports DL TM1/2/3/4/6/7/8/9
- LTE antennas: 4 embedded directional antennas of up to 10 dBi/element (4x4 MIMO)

- Supports DL 2CC, 4x4 MIMO, 8 spatial streams
- Supports DL up to 4 Carrier Aggregations, UL up to 2 Carrier Aggregations
- Supports DL modulation QPSK, 16-QAM, 64-QAM and 256-QAM
- Supports UL modulation QPSK, 16-QAM and 64-QAM
- Supports DL speeds of up to 580 Mbps by TDD conf.2\*
- Supports UL speeds of up to 30.2 Mbps by TDD conf.2\*
- Max EIRP:
  - 23 dBm/10 MHz
  - 26 dBm/20 MHz
  - 29 dBm/40 MHz

#### 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 socket
- One reset & reboot button

#### Power specifications

- IEEE 802.3af/at Power over Ethernet PD support compatible
- Power consumption at PoE: 13 W (peak)

#### WiFi interface for management

- 802.11 n/g/b, 2.4 GHz
- Hidden SSID
- 2 embedded antennas
- For local management purpose only

#### Physical specification

- Item dimensions (WxDxH): 254 x 255 x 58 mm (9.99" x 10.03" x 2.28")
- Item 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°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

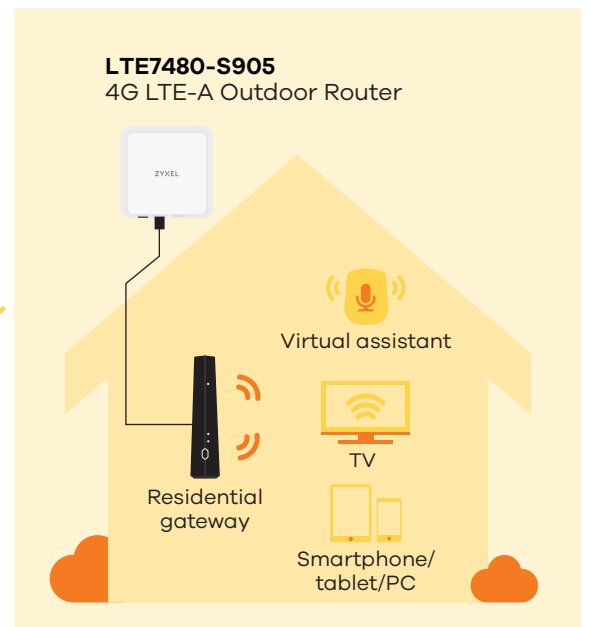
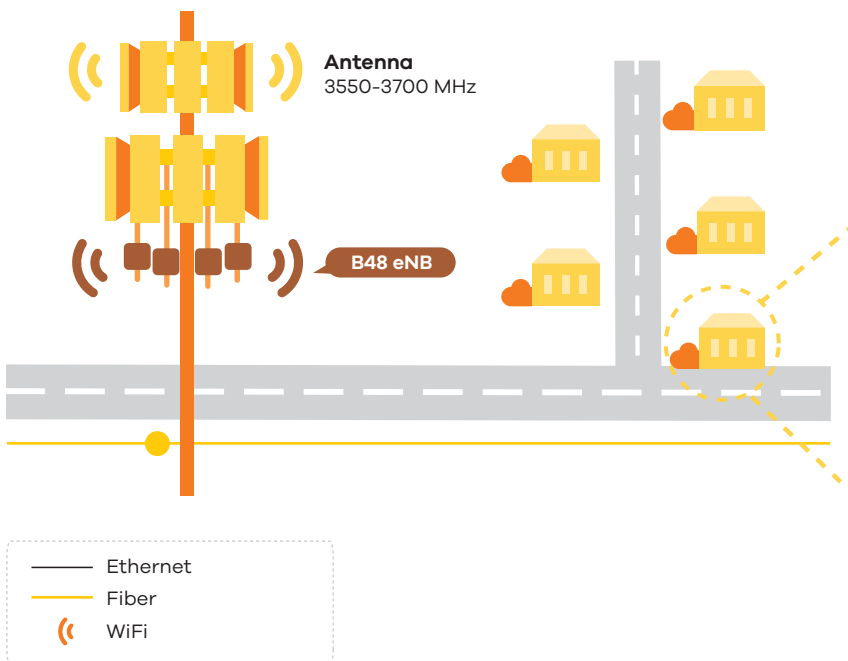
- FCC

#### Package contents

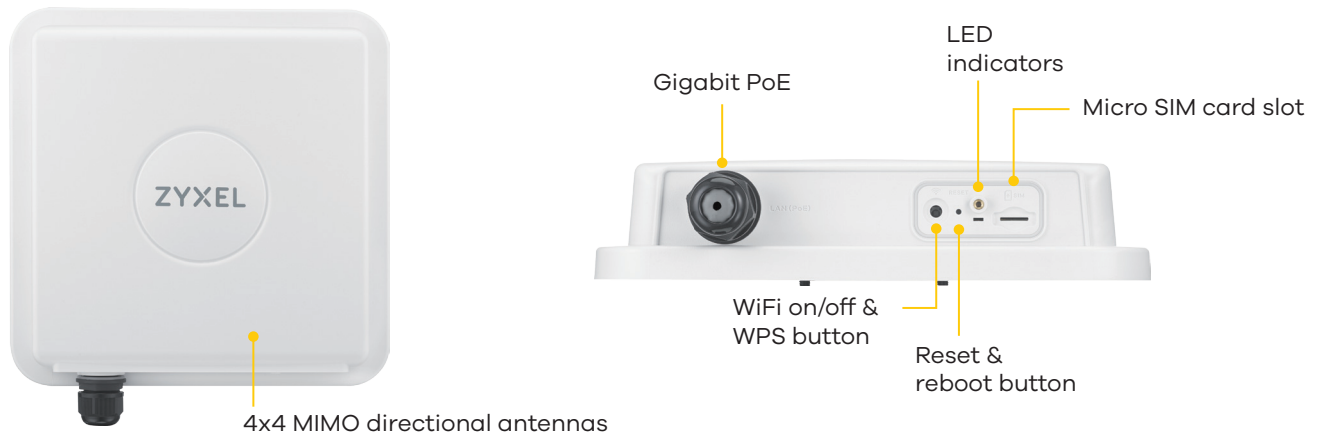
- Gigabit PoE injector
- Ethernet cable
- Cable gland
- Quick Start Guide
- Wall/pole mounting kit
- Grounding kit

\* The maximum wireless data transfer rate is derived from 3GPP specifications close to DL UE Category 16 and UL UE Category 13. 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.

## Application diagram



## Hardware description



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Datasheet [LTE7480-S905](#)



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