ZYXEL
COMMUNICATIONS

LTE7480-M804

4G LTE-A Outdoor Router

Zyxel LTE7480-M804 4G LTE-A Outdoor Router supports Cat. 12 and perfect for the operators who are looking for 4G LTE FWA solutions to deliver high-capacity broadband services with deployment flexibility.

Benefits

Lightning-fast internet connectivity

The Zyxel LTE7480-M804 4G LTE-A Outdoor Router employs 3GPP UE downlink Category 12 – the best-practice LTE technology with downlink data rates of up to 600 Mbps through 8 spatial streams on two component carriers.

Built-in 4x4 MIMO high-gain antenna

The Zyxel LTE7480-M804 4G LTE-A Outdoor Router provides 4x4 MIMO high-gain antennas of up to 7 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.

3GPP Release 12 Cat. 12/up to 600/150 Mbps* (DL/UL)

Built-in 4x4 MIMO, directional high-gain antennas of up to 7 dBi per element

Standard 802.3af/at Gigabit PoE

Bridge and router modes, IPv4/IPv6 dual stack

Remote management via TR-069 (with TR-143 speed test), HTTP/web GUI and FTP

IP68 hardened enclosure with industrial grade components

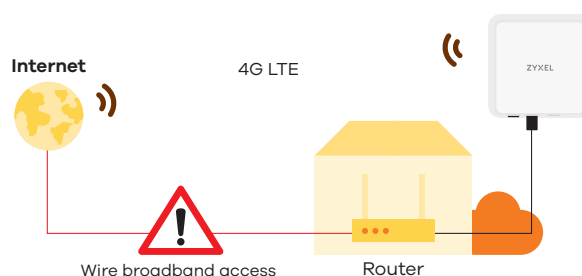Zyxel mobile apps (iOS and Android)

Easy installation with Zyxel's mobile app

Easy installation is realized with a flexible wall or pole mounting kit, integrated 802.3af/at PoE injector support, and dedicated WiFi interface. The LTE7480-M804 connects to Zyxel's mobile app with intuitive RF signal strength graphics for base station alignment.

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 "Dual-WAN Failover ", you can just connect Zyxel LTE7480-M804 to the existing gateway and set LTE as the failover WAN and relieve the risk of network outage.

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

With TR-069, TR-181 and TR-143 support, the Zyxel LTE7480-M804 effectively secures OPEX by reducing the frequency of on-site support and by providing simplified diagnostic, configuration and troubleshooting processes.

Environmentally-hardened

With IP68-compliant K.21 6 kV/300 A lightning protection, the Zyxel LTE7480-M804 guarantees high-quality connections, a longer device life despite the weather and natural challenges. The LTE7480-M804 can operate within a wide range of temperature and humidity, which supports your service deployed in wide territorial scopes.

Specifications

System specifications

IP networking

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

Routing

- Supports router mode
- Supports bridge (IP pass-through) mode
- Supports dynamic DNS for first APN
- Supports remote management under bridge mode

IP firewall

- Firewall can be enabled or disabled via GUI
- DoS attack prevention
- 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, HTTP/web GUI and FTP
- APN management
- Account 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 certification management
- Supports bandwidth/quota management
- Supports mobile apps (iOS and Android) for easy installation and local management only
- Supports remote throughput testing by TR143
- WiFi Protected Setup (WPS)
- Hidden SSID

Hardware specifications

LTE interface
- Standard-compliant: 3GPP UE Category 12
- Supports LTE bands: 1/3/5/7/8/20/28/32/38/40/41
- Supports DL TM1/2/3/4/7/8/9
- LTE antennas: 4 embedded directional antennas of up to 7 dBi/element (4x4 MIMO)
- Supports DL 2CC, 4x4 MIMO, 4 spatial streams
- 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 600 Mbps
- Supports UL speeds of up to 150 Mbps

WiFi interface
- Wireless standards: 802.11 b/g/n, 2.4 GHz, 300 Mbps
- Wireless omni antennas: WiFi 2.4 GHz: 2x2 internal antennas up to 3 dBi

Hardware interface
- One Gigabit RJ-45 PoE LAN port
- One LED indicator for:
  - Power status
  - Internet status
  - LTE signal strength
  - WiFi status
  - LAN status
- One WiFi on/off button
- One 3FF mini SIM card socket
- One reset to default button

Power specifications
- Standard 802.3af/at PoE

Power consumption
- 16 watt (peak)

Physical specifications
- 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 hardened for outdoor environments

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)
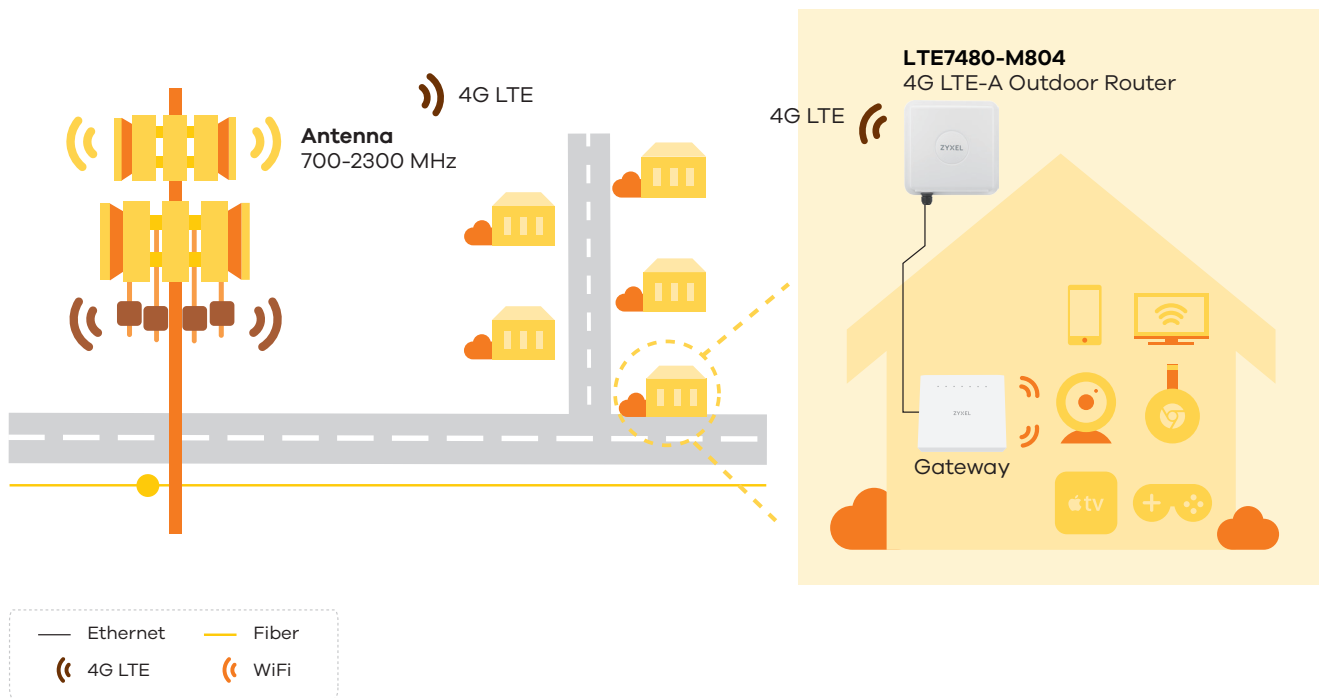- Humidity: 5% to 95% (non-condensing)

Certification
- CE
- WEEE (Waste Electrical and Electronic Equipment) Directive certification
- RoHS (Restriction of Hazardous Substances) Directive certification
- HSF (Hazardous Substance Free)
- European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste
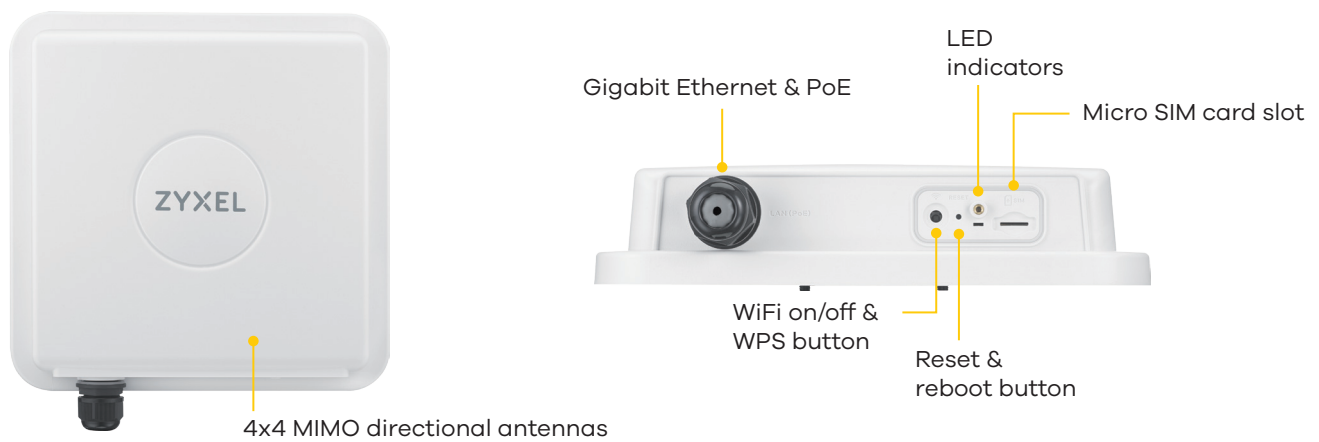
Package contents
- Standard 802.3af/at Power over Ethernet (PoE) injector
- 1.8 M Ethernet cable 8P8C
- Power cord
- 1 M grounding kit
- PG19 thread (cable grand)
- Quick Start Guide
- Warranty card
- DoC and safety warning
- Wall/pole mounting kit
- Stand (optional)

Application diagram

Antenna
700-2300 MHz

4G LTE

LTE7480-M804
4G LTE-A Outdoor Router

4G LTE

Gateway

Ethernet — Fiber

4G LTE — WiFi

Hardware description

4x4 MIMO directional antennas

Gigabit Ethernet & PoE

LED indicators

Micro SIM card slot

WiFi on/off & WPS button

Reset & reboot button

18/08/20

Datasheet LTE7480-M804