

# ZYXEL



## LTE3301-M209

### LTE Indoor Router

Mobile technology creates opportunities for new operators to enter networking business with lower investment comparing to building fixed-line infrastructures. To fixed-line operators, mobile network is more important as a backup to offload congested bandwidth for higher customer satisfaction. Mobile network is the trend that operators can never resist. Zyxel, as a global leader of broadband networking, always stay ahead of the trend to offer the market with innovative designs.

The LTE3301-M209 employs LTE — the latest mobile broadband technology with high popularity — to deliver the best possible data rates of up to 150/50 Mbps (DL/UL). With bridge and router modes embedded, the LTE3301-M209 is adaptive to all kinds of devices/gateways for seamless integration with your CPE (Customer Premise Equipment) on-hand in a simple yet complete way to meet your needs.

### Benefits

#### Maximum freedom of mobility

As LTE markets expand quickly, base station coverage is yet to be completed. The LTE3301-M209 supports single- (LTE) and multi-mode (LTE/3G/2G) so you can stay connected even of there is only 3G or 2G services. Besides, the multi-band support also relieves the concern from varied LTE/3G frequencies in different countries. The flexibility of LTE3301-M209 keeps you online around the world with the maximum freedom of mobility.



3GPP release 9 category 4 with data rates of up to 150/50 Mbps (DL/UL)



Supports switching seamless between 4G, 3G and 2G/EDGE



Multiple-band is supported and varied in different countries



Supports bridge or router mode

## State-of-the-art technology

The LTE3301-M209 employs 3GPP release 9, category 4 — the best practice of LTE technology with 150/50 Mbps (DL/UL) data rates. It also supports 3G/2G networks with the up-to-date “Dual Carrier HSPA+ (DC-HSPA+) technology” of

## Embedded bridge/router mode for all devices/gateways

For network integration, Zyxel embeds both bridge and router modes into the LTE3301-M209. Users can take advantage of the built-in routing functions in all typical applications, while the bridge mode is designed to work

## High-speed WiFi of up to 300 Mbps

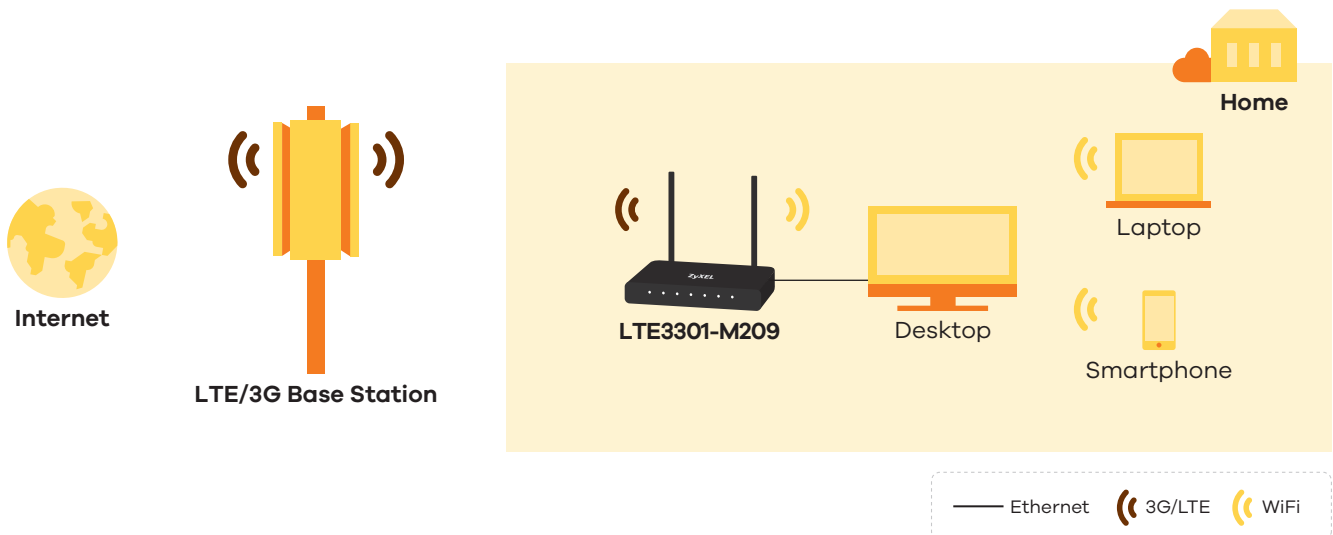
The LTE3301-M209 comes with 802.11n WiFi compatibility, so you can enjoy high-speed WiFi of up to 300 Mbps without additional devices. With the true wireless connection

42/5.76 Mbps (DL/UL) data rates. You can enjoy ultra-fast, flexible wireless connection anywhere within LTE/3G/2G signal coverage.

with users' existing or preferred device such as high-end WiFi Access Points, Small Business Gateways or Enterprise Gateways. With the two built-in modes, the LTE3301-M209 can be easily integrated with all kinds of devices/gateways.

provided by the LTE3301-M209 of indoor router, there's no cabling needed for either LTE WAN or wireless LAN.

## Application Diagram



# Specifications

## System Specifications

### IP Networking

- Support IPv4/ and IPv6 dual stack
- DHCP dynamic and fixed IP address assignment on LAN side
- VPN pass through firewall
- NAT/NAPT
- Port forwarding DMZ
- DNS/DDNS
- Support NAT router mode
- Support bridge mode (IP pass-through)

### WiFi Security

- WEP: 64/128-bit
- WPA/WPA2
- Support WPA2 primarily, and automatic fallback to WPA for clients that do not support WPA2
- WPA/WPA2-PSK
- MAC address filter with 32 addresses supported

### Management

- APN management
- SIM PIN management
- SMS management
- Secure remote management via WebGUI/SSH
- Over-the-Air (OTA) firmware upgrade: TR-069/WebGUI support IPv4/and IPv6 dual stack

## Hardware Specifications

### LTE Air Interface

- Standard compliant: 3GPP release 9 category 4
- Peak data rates :
  - 150 Mbps DL within 20 MHz bandwidth
  - 50 Mbps UL within 20 MHz bandwidth
- LTE: Band 1/3/7/8/20/28/38/40

- LTE FDD: 2600/2100/1800/900/800/700 MHz
- LTE TDD: 2600/2300 MHz

### WiFi Air Interface

- IEEE 802.11 b/g/n 2.4 GHz, data rates up to 300 Mbps
- WiFi enabled device#: up to 32
- WiFi antenna: 2 internal antennas up to 3 dBi

### UMTS/GSM Air Interface

- Standard compliant: UMTS/HSPA Band 1/8 (WCDMA 2100/900 MHz)
- GSM/GPRS/EDGE Band 3/8 (1800/900 MHz)
- DC-HSPA+ downlink data rate up to 42 Mbps
- HSUPA uplink data rate up to 5.76 Mbps
- UMTS/WCDMA data rate up to 384 Kbps
- GPRS data rate up to 85.6 Kbps

### Hardware Interface

- Four 10/100 Mbps Ethernet RJ-45 LAN ports
- One 2FF mini SIM card socket
- One reset to default button
- One power on/off button
- One WiFi on/off button
- One DC power jack
- One WPS button
- Two external LTE antenna (up to 3 dBi)

### LED Indicators

- Power status
- Internet status
- LTE signal strength
- WiFi status
- LAN status

### Power Consumption

- 12W

## Physical Specifications

- Item dimensions (WxDxH): 186 x 120 x 30 mm (7.3" x 4.7" x 1.2")
- Item weight: 350g (0.77 lb.)
- Packing dimension (WxDxH): 271 x 192 x 113 mm (10.67" x 7.56" x 4.45")
- Packing weight: 778g (1.72 lb.)

## Environmental Specifications

### Operating Environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 10% to 90% RH (Non-condensing)

### Storage Environment

- Temperature: -10°C to 70°C (14°F to 158°F)
- Humidity: 0% to 95% RH (Non-condensing)

## Package Contents

- LTE indoor router
- LTE antenna x 2
- Power adapter
- Ethernet cable
- Quick start guide
- Warranty card

## Model Description

Model	Band	LTE Frequency
LTE3301-M209	LTE Band B1/3/7/8/20/28/38/40 UMTS/HSDPA/HSUPA/HSPA+/ DC-HSPA+ Band 1/8 GSM/GPRS/EDGE B3/8	Band 1 FDD UL: 1920 - 1980 MHz; DL: 2110 - 2170 MHz
		Band 3 FDD UL: 1710 - 1785 MHz; DL: 1805 - 1880 MHz
		Band 7 FDD UL: 2500 - 2570 MHz; DL: 2620 - 2690 MHz
		Band 8 FDD UL: 880 - 915 MHz; DL: 925 - 960 MHz
		Band 20 FDD UL: 832 - 862 MHz; DL: 791 - 821 MHz
		Band 28 FDD UL: 703 - 748 MHz; DL: 758 - 803 MHz
		Band 38 TDD UL/DL: 2570 - 2620 MHz
		Band 40 TDD UL/DL: 2300 - 2400 MHz

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