ZYXEL

LTE3302 Series
4G LTE Indoor Router/IAD

Mobile technology creates opportunities for new operators to enter the 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, as such mobile networking is the trend that operators can never resist. Zyxel, as a global leader of broadband networking, always stays ahead of the trend to offer the market with innovative designs.

The Zyxel LTE3302 Series 4G LTE Indoor Router/IAD employs LTE — the latest mobile broadband technology with high popularity — to deliver the best data rates possible at up to 150/50 Mbps (DL/UL). With bridge and router modes embedded, the Zyxel LTE3302 Series is adaptive to all kinds of devices/gateways for seamless integration with your CPE on-hand in a simple yet complete way to meet your needs.

Fast 4G LTE connections for downlink speeds of up to 150 Mbps

Switch seamlessly among 4G LTE, DC-HSPA+, 3G, EDGE and GPRS

2.4 GHz 802.11n 2x2 WiFi with multiple simultaneous SSID supporting 32 simultaneous WiFi clients

Extra-flexible operating mode switching between bridge mode and router mode

Micro USB power port

Operated with rechargeable battery (optional)

Benefits

Maximum freedom of mobility

The Zyxel LTE3302 Series provides wireless broadband connectivity and seamless switching among 4G LTE, DC-HSPA+, 3G, EDGE and GPRS that allows the freedom to surf the Internet and access any information at home, in the office or anywhere under LTE coverage without wire connection.
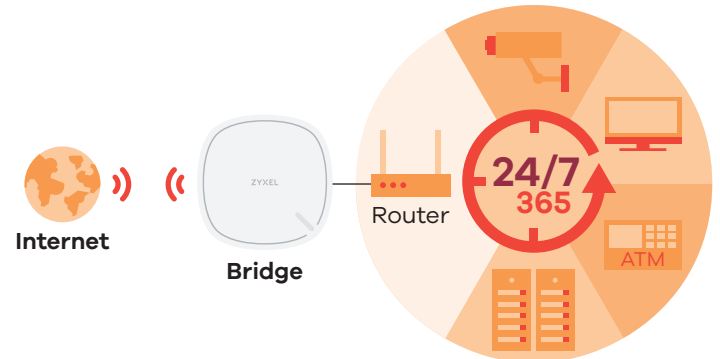
Continuity Internet sharing

With Micro USB power port, you can use it as a portable router when you're traveling, fishing or watching football games. As higher-capacity power banks or car chargers are widely available, it's easy to use the Zyxel LTE3302 Series for an extended time for continuous Internet sharing.
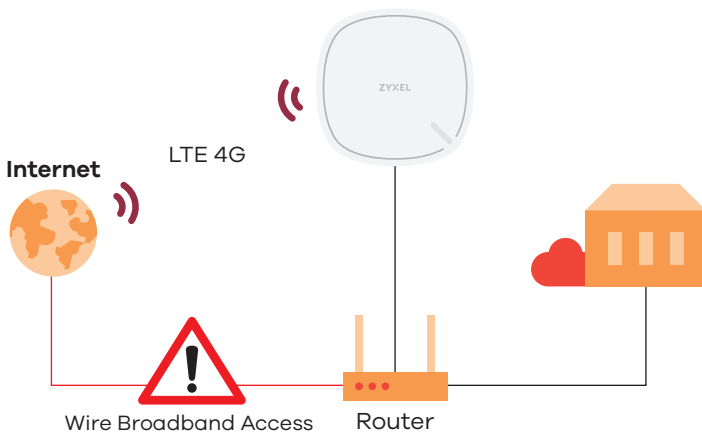
Embedded bridge/router mode adapts to most devices/gateways

For better network integration, Zyxel embeds both bridge and router modes into the Zyxel LTE3302 Series. Users can take advantage of the built-in routing functions in all typical applications, while the bridge mode is designed to work with users' existing or preferred devices such as high-end WiFi access points, small business gateways or enterprise gateways.

Non-stop connectivity with LTE 2nd WAN for fail-over

Multi-WAN fail-over relieves the risk of network outage depending on single WAN technology. Even better, wireless LTE connectivity allows you to maintain a second WAN option without a cable plan. As long as the gateway supports "multi-WAN fail-over", you can just connect the Zyxel LTE3302 Series to an existing gateway and set LTE as the fail-over WAN.

Circuit-switched and VoLTE support for seamless voice migration*

Technologies behind voice services vary by operators; some utilize the "packet-switched" method and some choose "circuit-switched". Thanks to the LTE3312 supports to both technologies, you don't have to worry about voice functions supported by your operator. You can easily migrate the voice functions to LTE3312 Series over LTE network.

* Voice is supported on LTE3312

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
- Supports NAT Router mode
- Supports 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 address supported

Management
- APN management
- SIM PIN management
- SMS management
- Secure remote management via WebGUI/SSH
- Over-The-Air (OTA) firmware upgrade: TR-069/WebGUI

Voice Service (LTE3312)
- CS-Voice:
  - Standard compliant: 3GPP TS 23.272 Release 9
  - Support CSFB from LTE to 3G
- Voice over LTE:
  - GPP/GSMA IR.92 compliant
  - Supports Audio CODEC: G.711 (U-law), AMR, AMR-WB, EVRC
  - DTMF over RTP
  - Voice Activity Detection (VAD)
  - Comfort Noise Generation (CNG)

Hardware Specifications

LTE Air Interface
- Standard compliant: 3GPP Release 9 category
- Supported frequency band:
  Band LTE B1/2/3/5/7/8/20/28/38/40
  LTE TDD 2300/2600 MHz
  LTE FDD 2600/2100/1900/1800/900/850/800/700 MHz
- LTE/3G/2G internal antenna: x2
- LTE/3G/2G external SMA-F connectors: x2
- Peak data rate:
  - 150 Mbps DL within 20 MHz bandwidth
  - 50 Mbps UL within 20 MHz bandwidth

UMTS/GSM Air Interface
- Standard compliant: DC-HSDPA/HSPA+ compliant
- Supported frequency:
  - HSPA+/UMTS, B1/5/8 (2100/900/850 MHz)
  - EDGE/GPRS/GSM, B2/3/5/8 (1900/1800/900/850 MHz)
  - DC-HSPA+ downlink data rate up to 42 Mbps
  - HSUPA uplink data rate up to 5.76 Mbps
  - UMTS data rate up to 384 kbps
  - EDGE data rate up to 236.8 kbps
  - GPRS data rate up to 85.6 kbps

WiFi Air Interface
- IEEE 802.11 b/g/n, 2.4 GHz, data rate up to 300 Mbps
- WiFi enabled device #: up to 32
- Multiple SSIDs support
- WiFi antenna: 2 internal antennas up to 3 dBi

Hardware Interface
- Two 10/100 Mbps Ethernet RJ-45 LAN ports
- One RJ-11 FXS port (LTE3312)
- LEDs:
  - Power & signal and quality
  - Internet status/SMS
  - WiFi status
  - LAN status
  - Battery status
- One 2FF format mini SIM card slot
- One power on/off button
- One WLAN/WPS button
- One reset to default button
- Two SMA connectors for 4G LTE/3G/2G connection
- Micro USB power port (5V/2A)

Battery (Optional)
- Removable lithium-ion polymer battery
- 3.8V, 2800 mAh
- Up to 4 hours operating time (depends on network environment)

Physical Specifications
- Dimensions (WxDxH): 130 x 130 x 45 mm

Environmental Specifications

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

Storage Environment
- Temperature: -30°C to 70°C (-22°F to 158°F)
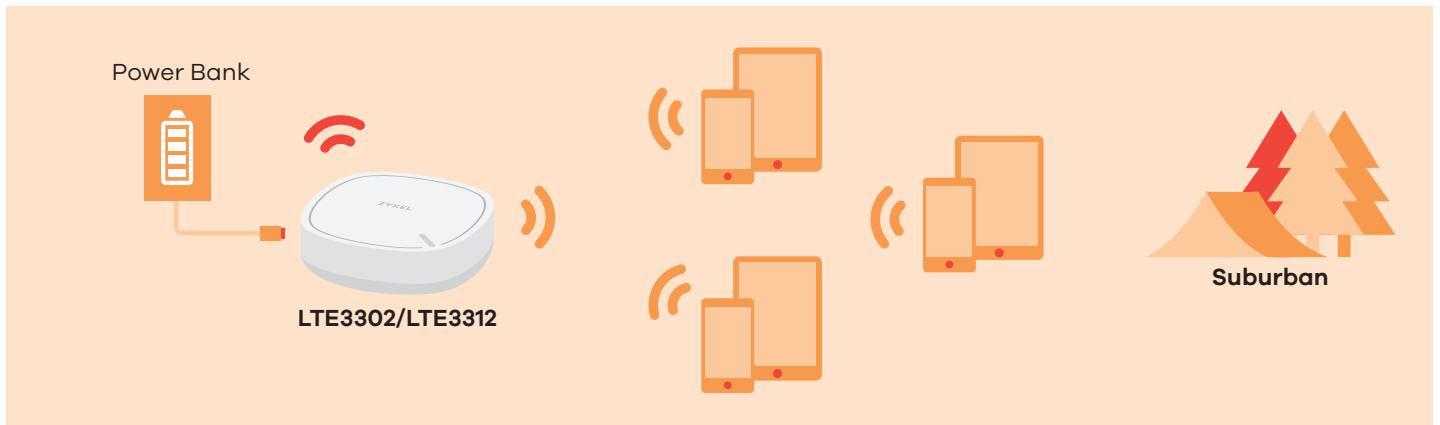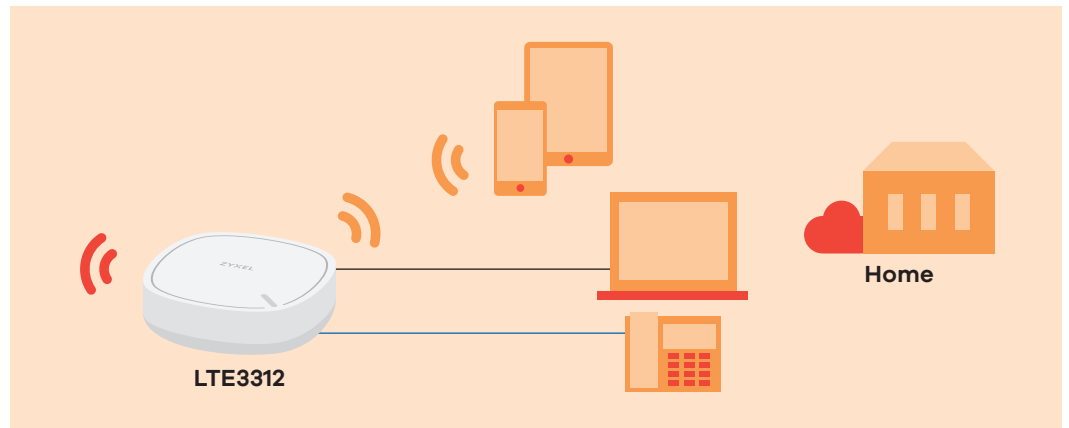- Humidity: 0% to 95% (Non-condensing)

Power Specification
- External power supply: 110 - 240 VAC/5V 2A DC adaptor
- Power consumption at peak: 10W (peak)

* Notice: The warranty is provided for a period of six (6) months in respect of the removable battery.

Application Diagram

LTE/3G/2G
Base Station

LTE3312

Home

Power Bank

LTE3302/LTE3312

Suburban

| ——— Ethernet | ——— DSL | 2.4G | LTE/3G/2G |

Datasheet LTE3302 Series

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