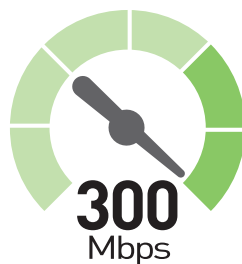# ZyXEL

LTE4506-M606

4G LTE-A HomeSpot Router

The Zyxel LTE4506 LTE-A HomeSpot provides users with mobile broadband connectivity to enjoy the latest Carrier Aggregation technology compatible with LTE, DC-HSPA+/HSPA/UMTS and EDGE/GPRS/GSM that allows users to connect with a variety of mobile broadband services all over the world. You can easily surf the Internet at home, in the outdoors or anywhere within LTE/3G coverage without wire limitation.

Benefits

Lightning-fast Internet connectivity

The LTE4506 is a pioneer in portable routers with LTE Category 6 compliance. The Carrier Aggregation technology delivers downlink data rates of up to 300 Mbps – twice the Category 4 and is better than fixed-line Ethernet. Thanks to the modern technology, you can enjoy lightning-fast Internet now!

One-touch Wi-Fi sharing

The main purpose of portable routers is to share Internet connectivity with others. With the latest 802.11ac Wi-Fi technology, the LTE4506 provides AC1200 Simultaneous Dual-band (2.4 GHz and 5 GHz) Wi-Fi services that is capable of supporting up to 32 simultaneous users. To share Wi-Fi more conveniently, the LTE4506 provides a One-Touch button on the top for users to turn on the Wi-Fi sharing function with ease.

300 Mbps

- LTE 3GPP Release 10 CAT. 6
- 40 MHz Carrier Aggregation for downlink speeds of up to 300 Mbps
- 802.11ac/n with dual-band Wi-Fi supporting up to 32 Wi-Fi clients
- Multi-Mode, Multi-Band for LTE FDD: B1/3/7/8/20/28 TDD: B40
- Start Wi-Fi sharing by pressing WPS button

Datasheet LTE4506-M606

Specifications

System Specifications

Wi-Fi AP Features
- 802.11 ac/n/a/g/b, 2.4 GHz & 5 GHz Simultaneous Dual-band (2.4 GHz: 2x2; 5 GHz: 2x2)
- Auto Channel Select (ACS)
- Wi-Fi enabled device #: up to 32
- Hidden SSID
- Security modes: WPA/WPA2 PSK, & WPA/WPA2 mixed mode
- Access control: STA blacklist/white list
- Dual-SSID support
- WPS: Pin and PBC, WPS2.0

System Features
- Web UI/multiple language supported
- SMS management
- Quota management
- APN/PIN management
- Network selection
- Data usage/statistic
- DHCP server
- NAT
- Port forwarding
- IP firewall
- Proxy DNS
- VPN pass-through
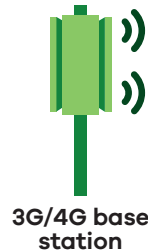- TR-069 management
- IPV6/IPv4 dual stack

Operating System Supported
- IE 8, IE 9, IE10, IE11, Edge
- Firefox latest 2 version (38, 39)
- Chrome latest 2 version (42, 43)
- Safari 7, 8

Hardware Specifications

LTE Air Interface
- Standard compliant: 3GPP Release 10 Category 6
- Supported frequency:
  Band 1/3/7/8/20/28/40 –
  LTE TDD 2300 MHz
  LTE FDD 2600/2100/1800/900/800/700 MHz
- Carrier aggregation support:
  B1+B8/B3+B20/B3+B7/B3+B8/B7+B20/B7+B28/B40+B40/B3+B3/B7+B7/B3+B28
- LTE antenna: 2 internal antennas
- FDD LTE peak data rate:

- 300 Mbps DL within 40 MHz bandwidth (CA)
- 50 Mbps UL within 20 MHz bandwidth
- TDD LTE peak data rate:
  - 224 Mbps DL within 40MHz bandwidth (CA)
  - 10 Mbps UL within 20 MHz bandwidth

UMTS/EDGE/GPRS/GSM Air Interface
- Standard compliant: DC-HSDPA/HSPA+ compliant
- Supported frequency:
  - HSPA+/UMTS 2100/900 MHz (band 1/8)
  - EDGE/GPRS/GSM 1800/900 MHz (band 3/8)
  - 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

Hardware Interface
- DC input (5 V/1.5 A, Micro USB)
- One UICC/USIM card slot
- Reset button
- Wi-Fi on/off button
- Power on/off button
- One Gigabit Ethernet (RJ-45)

Application Diagram

Plug-and-play for higher mobility

3G/4G base station

Power bank

5 V/1.5 A DC input/ micro USB connector

Gigabit Ethernet

Home

Outdoor

- LED indicators:
  - Signal strength
  - Internet status
  - Wi-Fi status

Physical Specifications
- Item dimensions (WxDxH): 66.8 x 66.8 x 110.5 mm (2.63" x 2.63" x 4.35")
- Item weight: 150 g (0.33 lb.)

Environmental Specifications

Operating Environment
- Temperature: 0°C to 40°C (32°F to 104°F)
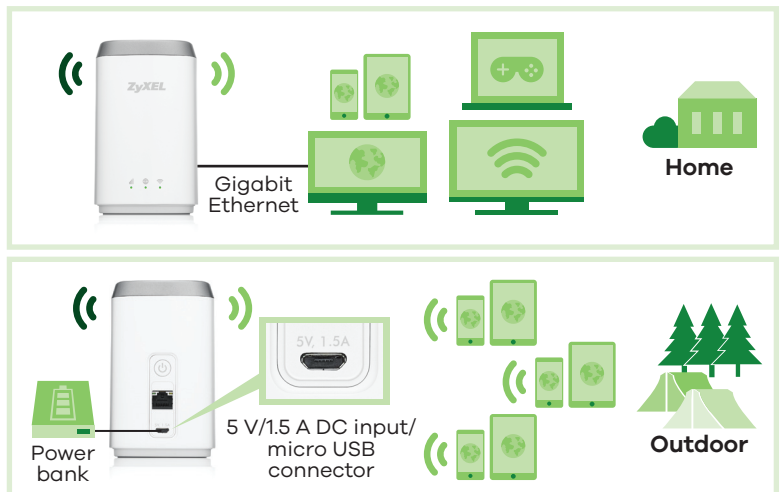
Storage Environment
- Temperature: -25°C to 70°C (-13°F to 158°F)

Compliance & Certifications
- Safety EN60950-1
- SAR EN62311
- EMC EN301489-1/-7/-17/-24
- RF EN301511, EN301908-1/-2/-13, EN300328, EN301893
- Wi-Fi Alliance
- WEEE
- 2011/65/EC (RoHS) Restriction of Hazardous Substances Directive
- HSF (Hazardous Substance Free)
- European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

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