



WAH7706

LTE Portable Router

Internet connection is essential to most people nowadays. With prevalence of smart devices, people keep looking for WiFi hotspots whenever they have free time. As smart phones become popular WiFi sharing interface on the go, you'll have to stay close to your friends and the battery would drain faster if you share your smart phone connection with others. To address this, ZyXel's WAH7706 LTE portable router is the hotspot solution to enhance your WiFi sharing capability, and its focus on data forwarding keeps the hotspot stay longer with better performance so smart phones can deal with other functionalities at the same time. The WAH7706 supports the latest LTE 4G+ technology for downlink data rates of up to 300 Mbps, and its compact plug-and-play design allows you to enjoy lightning-fast Internet connection with friends anytime, anywhere.

Benefits

Plug-and-play with high mobility

Powered by a portable battery, the WAH7706 is designed for you to enjoy and share WiFi on the go. Its plug-and-play design allows you to just insert a SIM card and connect to the Internet instantly. Sharing WiFi with WAH7706 not only frees up your smart phones for other activities, its excellent data forwarding performance is also much better than a smart phone that has to handle many other applications at the same time.

Lightning-fast Internet connectivity

The WAH7706 is one of the pioneering portable routers with LTE category 6 compliance. The "carrier aggregation" technology enables it to deliver downlink data rates of up to 300 Mbps — it's twice LTE category 4 and is



Plug-and-play



3GPP release 10, LTE category 6 with up to 300 Mbps data rates



Multi-mode Multi-band design supports LTE B1/3/7/8/20/28/38 (B40 option), 3G B1/B8 (DC-HSPA+), 2G B3/8



Carrier aggregation supports B1+B8/B3+B20/B3+B7/B3+B8/B7+B20/B3+B3/B7+B7/B3+B28/B38+B38/(B40+B40) with bandwidths up to 40 MHz



802.11ac with dual-band WiFi supporting up to 32 simultaneous WiFi clients



Removable 2800 mAh lithium-ion polymer battery

even better than some fixed-line technologies. Thanks to the advancement, you can now enjoy lightning-fast Internet even on to go.

Extended coverage all over the world

As LTE services are wide spreading quickly, there are still some countries lagging behind with only 3G and 2G available and there are different LTE frequencies adopted in different countries. The 4G/3G/2G multi-mode feature of WAH7706 not only supports common B1/3/7/8/20 frequency bands, but also includes the special band 28, band 38 or band 40 for countries using non-mainstream frequencies. With supports to the unique band 28, band 38 or band 40, the WAH7706 is capable to servicing more areas all over the world.

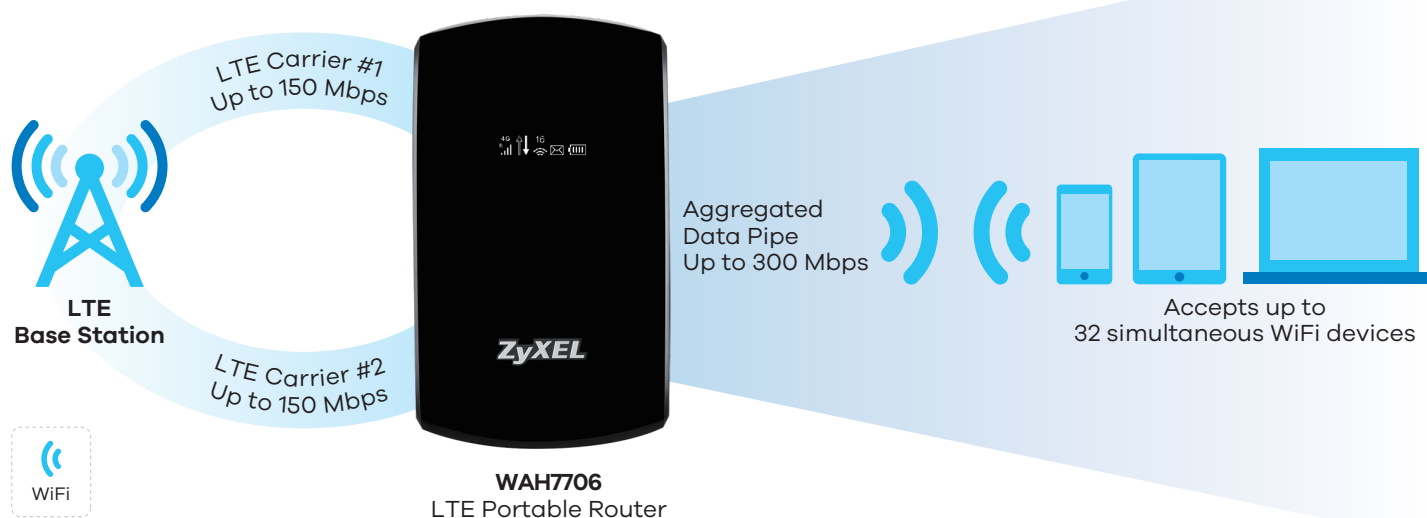
Stay connected longer and safer

Unlike smart phones that have to handle many other applications, the WAH7706 concentrates on data forwarding to utilize power more efficiently, and the "removable" battery design allows WAH7706 to keep working by easily replacing depleted ones. Better yet, lithium polymer batteries that withstands higher temperatures are thoughtfully employed for better safety comparing to common lithium-ion batteries.

Happy WiFi sharing

The main purpose of portable routers is to share Internet connectivity with others. With supports to the latest 802.11ac WiFi technology, the WAH7706 provides WiFi Dual-Band (802.11n+802.11ac) service that accepts up to 32 simultaneous WiFi clients to enjoy lightning-fast Internet connectivity. Free your smart phone and take advantage of the WAH7706 for better WiFi sharing experience.

Application Diagram



Specifications

System Specifications

IP Networking

- 802.11 ac/n/a/g/b, 2.4 GHz & 5 GHz dual band
- Auto Channel Select (ACS)
- WiFi enabled device #: Up to 32
- Hidden SSID
- Security modes: WPA/WPA2 PSK & WPA/WPA2 mixed mode
- AP power saving mode
- Access control: STA blacklist/white list
- Dual-SSID support
- WPS: Pin and PBC, WPS2.0

System Features

- Web UI/multiple language supported
- SD card content sharing (via WiFi)
- SMS/Quota/APN/PIN management
- Network selection
- Data usage/statistic
- DHCP server
- NAT
- IP firewall
- Proxy DNS
- VPN pass-through

Battery

- Removable lithium-ion polymer battery
- 3.8V, 2800 mAh
- Up to 10 hours operating time (depends on network environment)
- Up to 300 hours standby time

USB Tethering System Supported

- Win 7, Win 8, Win 10
- MAC OS X10.9, 10.10
- Ubuntu 12.04 LTS, 14.04 LTS

Browser Client

- IE 8, IE 9, IE 10, IE 11, 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 LTE 1/3/7/8/20/28/38 (40 option)
- Carrier aggregation support: B1+B8/B3+B20/B3+B7/B3+B8/B7+B20/B3+B3/B7+B7/B3+B28/B38+B38/(B40+B40)
- 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:
 - 24 Mbps DL within 40 MHz 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

- USB 2.0 high speed for network access
- One UICC/USIM card slot
- 5V/1.5A Micro USB port bus power supply
- One Micro SD card slot up to 32 GB
- Reset button
- OLED display:
 - Service provider name
 - 2G/3G/4G network status
 - Roaming status
 - Signal strength
 - Battery status
 - WiFi status

Physical Specifications

- Item dimensions (WxDxH): 111 x 65.5 x 14.5 mm (4.37" x 2.58" x 0.57")
- Item weight: 115g (0.25 lb.)
- Packing dimensions (WxDxH): 150 x 106 x 42 mm (5.91" x 4.17" x 1.65")
- Packing weight: 215g (0.47 lb.)

Environmental Specifications

Operating Environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 5% to 95% (Non-condensing)

Storage Environment

- Temperature: -20°C to 60°C (-4°F to 140°F)
- Humidity: 5% to 95% (Non-condensing)

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

ZYXEL

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Datasheet [WAH7706](#)



5-100-01418002 01/18