

# ZYXEL

Your Networking Ally



# Enjoy Great Time without Wire

**4G LTE**  
Quick Sales Guide

# We help you offer better 4G LTE experience



4G



# Stay connected, anytime, anywhere, anything

The evolution of mobile broadband has been changing people's behavior on the Internet – no matter they're at home or in the office. People nowadays get used to stay

connected with the Internet anytime, anywhere to look for information, receive pushed email or play games.

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## Faster, Broader, and Easier

Zyxel Communications, a world-class networking company that excels in providing innovative, reliable CPE solutions for telecommunications service providers, is now introducing various mobile broadband solutions that integrates its knowledge and experience with 3G/4G RF capabilities to connect faster, enjoy more of their connected life.

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## Seamlessly Connected, for Work and for Fun

To go beyond traditional wired broadband access, Zyxel mobile broadband solutions have been designed to provide seamless wireless experience for home and business users to stay connected with the world. The evolution of all-IP wireless networks also opens the door for operators and service providers to enhance the existing services as well as to introduce rich, innovative multimedia services.

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## Multiple-mode and Multiple-band for Extensive Services

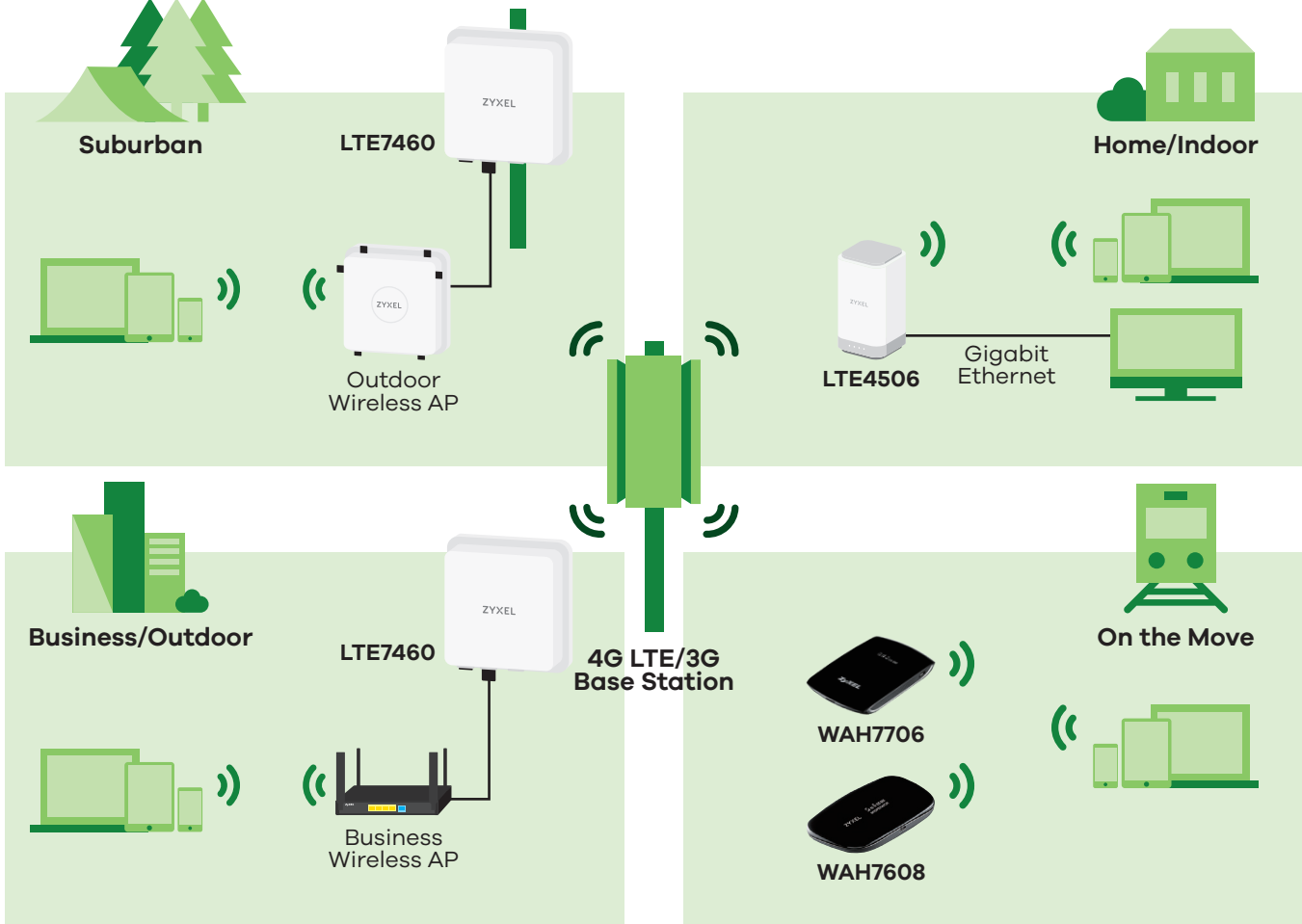
With the multiple-mode design, the Zyxel 4G LTE Router Series can not only connect to 4G LTE networks, but also fall back to the 3G or 2G mode where 4G LTE network is not yet available; so operators and service providers are able to offer services with broad coverage during the transition stage. The Zyxel 4G LTE Router Series supports multiple LTE frequency bands, including the most popular ones utilized by operators worldwide. The modular design of LTE interface in CPE offers the flexibility to support different frequency bands required by different operators.

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## Adaptive to All Kinds of Devices/ Gateways

In vision of network integration, Zyxel embeds both bridge and router modes into indoor and outdoor router 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 device such as high-end WiFi Access Points, Small Business Gateways or Enterprise Gateways. With the two built-in modes, Zyxel LTE routers can be integrated into all kinds of devices/gateways.

# Mobile broadband network








# Mobile broadband product portfolio

**LTE  
Outdoor  
CPE**

**LTE7460**  
4G LTE-A  
Outdoor Router



**LTE7240**  
4G LTE  
Outdoor Router



**LTE  
Indoor  
CPE**

**LTE5366**  
4G LTE-A  
Indoor IAD



**LTE3316**  
4G LTE-A  
Indoor IAD



**LTE4506**  
4G LTE-A  
HomeSpot  
Router



**LTE3302**  
4G LTE  
Indoor Router



**LTE3312**  
4G LTE  
Indoor IAD



**LTE3301**  
4G LTE  
Indoor Router



**LTE  
Portable  
Devices**

**WAH7706**  
4G LTE-A  
Portable Router



**WAH7608**  
4G LTE  
Portable Router



**3G  
Portable  
Devices**

**WAH7003**  
3G Portable Router







# LTE7460

4G LTE-A Outdoor Router



- 3GPP release 10 category 6 with data rates of up to 300/50 Mbps
- LTE FDD B1/B3/B7/B8/B20/B38/B40
- Multi-band for different countries
- Multi-mode for different using scenarios
- IP65 robust mechanical design for harsh environments
- PoE interface powered by indoor unit or PoE injector

## Specifications

<b>Standards</b>	3GPP release 10 category 6
<b>Frequency</b>	LTE Band 1/3/7/8/20/38/40 LTE TDD 2300/2600 MHz LTE FDD 2600/2100/1800/900/800 MHz
<b>LTE Carrier Aggregation</b>	B1+B1/B1+B3/B1+B7/B1+B8/B1+B20/B3+B3/ B3+B7/B3+B8/B3+B20/B7+B7/B7+B8/B7+B20 B38+B38/B40+B40

<b>Antenna</b>	2 embedded antennas of up to 8 dBi
<b>LAN</b>	1 Gigabit Ethernet port (10/100/1000 Mbps)
<b>Dimensions (WxDxH)</b>	254 x 255 x 58 mm (10" x 10" x 2.3")

# LTE7240

4G LTE Outdoor Router



- 3GPP release 9 category 4 with data rates of up to 150/50 Mbps
- LTE FDD B1/3/5/7/8/20
- LTE TDD B38/40/41
- Multi-mode for different using scenarios
- IP54 robust mechanical design for harsh environments
- Pasive PoE interface powered by PoE injector

## Specifications

<b>Standards</b>	3GPP release 9 category 4
<b>Frequency</b>	LTE Band 1/3/5/7/8/20/38/40/41 LTE TDD 2300/2500/2600 MHz LTE FDD 2600/2100/1800/900/850/800 MHz
<b>Antenna</b>	2 embedded antennas of up to 6 dBi

<b>LAN</b>	1 Gigabit Ethernet port (10/100/1000 Mbps)
<b>Dimensions (WxDxH)</b>	200 x 140 x 50 mm (7.87" x 5.51" x 1.97")



# LTE5366

4G LTE-A Indoor IAD



- 3GPP release 10 category 6
- Data rates of up to 300/50 Mbps (DL/UL)
- AC2050 WLAN, Dual-Band concurrent
- CS-Voice or VoLTE
- Mobile WAN with failover to Ethernet WAN
- External LTE/3G/2G antenna ports (SMA-Female)

## Specifications

<b>Standards</b>	3GPP release 10 category 6
<b>Frequency</b>	LTE Band 1/3/7/8/20/38/40 LTE TDD 2300/2600 MHz LTE FDD 2600/2100/1800/900/800 MHz
<b>LTE Carrier Aggregation</b>	B1+B1/B1+B3/B1+B7/B1+B8/B1+B20/B3+B3/ B3+B7/B3+B8/B3+B20/B7+B7/B7+B8/B7+B20 B38+B38/B40+B40

<b>Antenna</b>	2 embedded LTE/3G antennas with external connectors
<b>LAN</b>	4 Gigabit Ethernet port (10/100/1000 Mbps) LAN1 can be configured for Ethernet WAN port
<b>Dimensions (WxDxH)</b>	230 x 160 x 30 mm (9.05" x 6.29" x 1.18")

# LTE3316

4G LTE-A Indoor IAD



- 3GPP release 10 category 6
- Data rates of up to 300/50 Mbps (DL/UL)
- AC1200 WLAN, Dual-Band concurrent
- CS-Voice or VoLTE
- Mobile WAN with failover to Ethernet WAN
- External LTE/3G/2G antenna ports (SMA-Female)

## Specifications

<b>Standards</b>	3GPP release 10 category 6
<b>Frequency</b>	LTE Band 1/3/5/7/8/20/28/38/40/41 LTE FDD 2600/2100/1800/900/850/800/700 MHz LTE TDD 2600/2500/2300 MHz
<b>LTE Carrier Aggregation</b>	B1+B1/B5/B8/B20/B28 B3+B3/B5/B7/B8/B20/B28 B7+B5/B7/B8/B20/B28 B38+B38; B40+B40; B41+B41

<b>Antenna</b>	2 embedded LTE/3G antennas with external connectors
<b>LAN</b>	4 Gigabit Ethernet port (10/100/1000 Mbps) LAN1 can be configured for Ethernet WAN port
<b>Dimensions (WxDxH)</b>	202 x 157 x 40 mm (7.95" x 6.18" x 1.57")



# LTE4506

4G LTE-A HomeSpot Router



TAIWAN EXCELLENCE 2017



Shortlisted, 2016



GoldenPin Design Award, 2016



- 3GPP release 10 category 6 with data rates of up to 300/50 Mbps (DL/UL)
- Multi-mode, multi-band design
- Carrier Aggregation with bandwidth up to 40 MHz
- AC1200 WLAN with two simultaneous SSIDs
- WiFi sharing with up to 32 clients
- Non-stop power by power bank

## Specifications

<b>Standards</b>	3GPP release 10 category 6
<b>Frequency</b>	LTE Band 1/3/7/8/20/40/(38 optional) LTE TDD 2300MHz (2600 MHz optional) LTE FDD 2600/2100/1800/900/800 MHz
<b>LTE Carrier Aggregation</b>	B1+B8/B3+B20/B3+B7/B3+B8/B7+B20/ B7+B28/B3+B28/B3+B3/B7+B7/B40+B40

<b>WiFi features</b>	802.11 a/b/g/n/ac, 2.4 GHz/5 GHz dual bands
<b>Power</b>	DC 5V/1.5A, Micro USB connector
<b>LAN</b>	1 Gigabit Ethernet port (10/100/1000 Mbps)
<b>Dimensions (WxDxH)</b>	66 x 66 x 110.5 mm (2.63" x 2.63" x 4.35")

# LTE3312/LTE3302

4G LTE Indoor IAD/Router



- Fast 4G LTE connections for downlink speeds of up to 150 Mbps
- Switch seamlessly among 4G LTE, DC-HSPA+, 3G, EDGE and GPRS
- N300 WLAN with multiple simultaneous SSID supporting 32 simultaneous WiFi clients
- Micro USB power port
- Operated with rechargeable battery (optional)

## Specifications

<b>Standards</b>	3GPP release 9 category 4
<b>Frequency</b>	LTE Band 1/2/3/5/7/8/20/28/38/40 LTE TDD 2300/2600 MHz LTE FDD 2600/2100/1900/1800/900/850/ 800/700 MHz
<b>WiFi features</b>	802.11 b/g/n 2.4 GHz (up to 300 Mbps)

<b>Antenna</b>	2 embedded LTE/3G antennas with external connectors
<b>LAN</b>	Two 10/100 Mbps Ethernet RJ-45 LAN ports One RJ-11 FXS port (LTE3312)
<b>Dimensions (WxDxH)</b>	130 x 130 x 45 mm (5.11" x 5.11" x 1.77")

# LTE3301

4G LTE Indoor Router



- 3GPP release 9 category 4 with data rates of up to 150/50 Mbps (DL/UL)
- Multi-band for different countries
- Multi-mode for different using scenarios
- N300 WLAN with multiple simultaneous SSID supporting 32 WiFi clients
- Remote management through TR-069

## Specifications

<b>Standards</b>	3GPP release 9 category 4
<b>Frequency</b>	LTE Band 1/3/7/8/20/28/38/40 UMTS/HSDPA/HSUPA/HSPA+/DC-HSPA+ Band 1/8 GSM/GPRS/EDGE Band 3/8

<b>WiFi features</b>	802.11 b/g/n 2.4 GHz (up to 300 Mbps)
<b>LAN</b>	4 Fast Ethernet port (10/100 Mbps)
<b>Dimensions (WxDxH)</b>	186 x 120 x 30 mm (7.32" x 4.72" x 1.18")

# WAH7706

4G LTE-A Portable Router



- 3GPP release 10 category 6 with data rates of up to 300/50 Mbps (DL/UL)
- Multi-mode, multi-band design
- Carrier Aggregation with bandwidth up to 40 MHz
- AC1200 WLAN with two simultaneous SSIDs
- WiFi sharing with up to 32 clients
- Micro SD card slot (32 GB max.)
- 0.96" OLED LCD information display

## Specifications

<b>Standards</b>	3GPP release 10 category 6
<b>Frequency</b>	LTE Band 1/3/7/8/20/38/(40 optional) LTE TDD 2600MHz (2300 MHz optional) LTE FDD 2600/2100/1800/900/800 MHz
<b>LTE Carrier Aggregation</b>	B1+B8/B3+B20/B3+B7/B3+B8/B7+B20/B3+B3 B7+B7/B3+B28/B38+B38 (B40+B40)

<b>WiFi features</b>	802.11 a/b/g/n/ac, 2.4 GHz/5 GHz dual bands
<b>Battery</b>	Removable 2800 mAh lithium-ion polymer battery
<b>Storage</b>	One Micro SD card slot (up to 32 GB)
<b>Dimensions (WxDxH)</b>	111 x 65.5 x 14.5 mm (4.37" x 2.58" x 0.57")

# WAH7608

4G LTE Portable Router



- 3GPP release 9 category 4, data rates of up to 150/50 Mbps (DL/UL)
- N300 WLAN supports up to 10 WiFi clients
- Embedded LTE and WLAN antenna
- TS-9 connectors for external LTE antenna
- 2000 mAh removable battery provides up to 8 hours of working time
- Supports Android and iOS apps

## Specifications

<b>Standards</b>	3GPP release 9 category 4
<b>Frequency</b>	LTE Band 1/2/3/5/7/8/20/38/40 HSPA+/UMTS Band 1/2/5/8 EDGE/GPRS/GSM Band 2/3/5/8

<b>WiFi features</b>	802.11 b/g/n 2.4 GHz (up to 300 Mbps)
<b>Dimensions (WxDxH)</b>	120 x 66.5 x 17.5 mm (4.72" x 2.61" x 0.68")

# WAH7003

3G Portable Router



- 3GPP HSPA+/HSPA compliance
- Data rates of up to 21 Mbps DL and 5.76 Mbps UL
- N150 WLAN supports up to 10 WiFi clients
- WiFi sharing with up to 10 clients
- Micro SD card slot (32 GB max.)
- 0.9" OLED LCD display

## Specifications

<b>Standards</b>	3GPP HSPA+/HSPA
<b>Frequency</b>	HSPA+/UMTS Band B1/B8 EDGE/GPRS/GSM Band B2/B3/B5/B8
<b>WiFi features</b>	802.11 b/g/n 2.4 GHz (up to 150 Mbps)

<b>Battery</b>	2000 mAh lithium-ion battery
<b>Storage</b>	One Micro SD card slot (up to 32 GB)
<b>Dimensions (WxDxH)</b>	100 x 50 x 15.5 mm (3.93" x 1.97" x 0.6")

# Frequency band comparison

## Outdoor CPE

LTE UE Category	Cat 6	Cat 4
Model	LTE7460-M608	LTE7240-M403

### Product



	Band	Freq (MHz)	Duplex		
LTE	1	2100	FDD	Yes	Yes
	2	1900	FDD	-	-
	3	1800	FDD	Yes	Yes
	5	850	FDD	-	Yes
	7	2600	FDD	Yes	Yes
	8	900	FDD	Yes	Yes
	20	800	FDD	Yes	Yes
	28	700	FDD	-	-
	38	2600	TDD	Yes	Yes
	40	2300	TDD	Yes	Yes
	41	2600	TDD	-	Yes
	42	3400	TDD	-	-
	43	3600	TDD	-	-
	3G	1	2100	FDD	Yes
2		900	FDD	-	-
3		1800	FDD	-	-
5		2100	FDD	-	Yes
8		900	FDD	Yes	Yes
2G	2	1900	FDD	Yes	-
	3	1800	FDD	Yes	Yes
	5	850	FDD	Yes	-
WiFi AP	8	900	FDD	Yes	Yes
	802.11n 2x2			-	Yes
	802.11n 3x3			-	-
	802.11ac 2x2			-	-
	802.11ac 3x3			-	-
Number of user	802.11ac 4x4			-	-
				-	3 (management only)
<b>Ethernet</b>					
FE LAN				-	-
GE LAN				x1 (PoE)	x1 (PoE)
GE WAN				-	-
<b>Phone</b>					
VoIP				-	-
Vo3G/VoLTE				-	-
<b>Power</b>					
DC input				PoE 48V	PoE 12V
Battery				-	-

## Indoor CPE

LTE UE Category	Cat 6
Model	LTE5366-M608



### Product



	Band	Freq (MHz)	Duplex	
LTE	1	2100	FDD	Yes
	2	1900	FDD	-
	3	1800	FDD	Yes
	5	850	FDD	-
	7	2600	FDD	Yes
	8	900	FDD	Yes
	20	800	FDD	Yes
	28	700	FDD	Yes
	38	2600	TDD	-
	40	2300	TDD	Yes
	41	2600	TDD	-
	42	3400	TDD	-
	43	3600	TDD	-
	3G	1	2100	FDD
2		900	FDD	-
3		1800	FDD	-
5		2100	FDD	-
8		900	FDD	Yes
2G	2	1900	FDD	Yes
	3	1800	FDD	Yes
	5	850	FDD	Yes
	8	900	FDD	Yes
WiFi AP	802.11n 2x2			Yes
	802.11n 3x3			-
	802.11ac 2x2			-
	802.11ac 3x3			(Yes)
	802.11ac 4x4			Yes
Number of user				Up to 64
<b>Ethernet</b>				
FE LAN				-
GE LAN				x4
GE WAN				x1 (share LAN port)
<b>Phone</b>				
VoIP				-
Vo3G/VoLTE				x1
<b>Power</b>				
DC input				DC 12V
Battery				-

Cat 6				
Cat 6	Cat 6	Cat 4	Cat 4	Cat 4
LTE3316-M604	LTE4506-M606	LTE3301-M209	LTE3302-M432	LTE3312-M432
				
Yes	Yes	Yes	Yes	Yes
-	-	-	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	-	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	-	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Yes	Yes	Yes	Yes	Yes
Yes	-	-	Yes	Yes
-	-	-	-	-
Yes	-	-	Yes	Yes
Yes	Yes	Yes	Yes	Yes
-	-	-	Yes	Yes
-	Yes	Yes	Yes	Yes
-	-	-	Yes	Yes
-	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
-	-	-	-	-
Yes	Yes	Yes	-	-
-	-	-	-	-
-	-	-	-	-
Up to 32	Up to 32	Up to 32	Up to 32	Up to 32
-	-	x4	x2	x2
x4	x1	-	-	-
x1 (share LAN port)	-	-	-	-
-	-	-	-	-
x1	-	-	-	x1
DC 12V	5V Micro USB port	DC 12V	5V Micro USB port	5V Micro USB port
-	-	-	2800 mAh (option)	2800 mAh (option)



				Portable		
LTE UE Category				Cat 6	Cat 4	HSPA+
Model				WAH7706	WAH7608	WAH7003
				LTE Mi-Fi	LTE Mi-Fi	3G Mi-Fi
Product						
				Personal	Personal	Personal
Band				Freq (MHz)	Duplex	
LTE	1	2100	FDD	Yes	Yes	-
	2	1900	FDD	-	Yes	-
	3	1800	FDD	Yes	Yes	-
	5	850	FDD	-	Yes	-
	7	2600	FDD	Yes	Yes	-
	8	900	FDD	Yes	Yes	-
	20	800	FDD	Yes	Yes	-
	28	700	FDD	Yes	-	-
	38	2600	TDD	Yes	Yes	-
	40	2300	TDD	-	Yes	-
3G	1	2100	FDD	Yes	Yes	Yes
	2	900	FDD	-	Yes	-
	5	2100	FDD	-	Yes	-
	8	900	FDD	Yes	Yes	Yes
2G	2	1900	FDD	-	Yes	Yes
	3	1800	FDD	Yes	Yes	Yes
	5	850	FDD	-	Yes	Yes
	8	900	FDD	Yes	Yes	Yes
WiFi AP	802.11n 1x1			-	-	Yes
	802.11n 2x2			Yes	Yes	-
	802.11ac 2x2			Yes	-	-
	Number of users			Up to 32	Up to 10	Up to 10
Others						
Battery capacity				2800 mAH	2000/2380 mAH	2000 mAH
Display				0.9" LCM	0.9" LCM	0.9" LCM



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Your Networking Ally

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