ZyXEL

Powerful High-gain and Flexible Routing Mode for Seamless Wireless Connectivity

- **3GPP release 9 category 4 with data rates of up to 150/50 Mbps (DL/UL)**
- **LTE multi-band design and vary in different countries**
- **High-gain multiple-band antenna of up to 10 dBi**
- **IP67 robust mechanical design for harsh environments**
- **SIP-based VoIP communications**
- **Supports bridge or router mode**

As mobile devices such as smart phones and tablets consume more wireless broadband, the crowded bandwidth has become a big issue to operators. Mobile broadband is a better solution than fixed-line broadband for its lower investment and faster deployment. However, since fixed-line has been the major broadband infrastructure in most places of the world for a long time, people are already using fixed-line for broadband Internet connection in most cases. Migrating from fixed-line to mobile broadband may need extensive evaluation, however adding mobile broadband as a backup for better performance or stability could be an easier decision.

The ZyXEL LTE7400 Series comes with the critical features "the second WAN" needs – flexible routing mode with both bridge and router function, high-gain antenna for better signal and performance as well as outdoor design with robust IP67 hardware for harsh environments. No matter you have a router device or not, the LTE7400 Series can be easily deployed and integrated into your existing environment. You can set LTE as your main connection, or use LTE as a backup when performance of the main connection drops. The LTE7400 Series is good for any venue like suburban areas, public locations, homes and offices. Enjoy LTE technology with minimum effort with the LTE7400 Series.

Benefits

Embedded bridge/router mode adapts to all kinds of devices/gateways

For better network integration, ZyXEL embeds both bridge and router modes into the LTE7400 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 Wi-Fi Access Points, Small Business Gateways or Enterprise Gateways. With the two built-in modes, the LTE7400 Series can be easily integrated with all kinds of devices/gateways.

LTE7400 Series
LTE Outdoor IAD

Release 9 3GPP	LTE	IP67	10/100 100Mbps Ethernet	VoIP	Bridge/Router Mode	VPN	PoE Power Device	TR-069
3GPP Release 9	Multi-Band LTE Standard	Ingress Protection IP67	Ethernet 10/100/1000 Mbps	VoIP	Bridge/Router Mode	VPN	PoE Power Device	TR-069

Multi-band support with high-gain antenna

One concern for LTE technology is that the utilized frequencies vary in different countries. In many cases, operators apply different frequencies for metropolitan and suburban areas due to the high/low band frequency nature. The LTE7400 Series supports multiple bands to avoid this trouble among different places; the outstanding high-gain antenna supports up to 10 dBi (band 3/7/20 model) in multi-band design also provides enhanced LTE signal for better performance.

Robust IP67 hardware for harsh environments

The "Ingress Protection Marking" is the scale to classify and rate the degree of protection provided by mechanical casings and electrical enclosures against intrusion (from body parts such as hands and fingers), dust, accidental contact and water. The LTE7400 Series is rated as IP67, which means "dust tight" with no ingress of dust (the top level) and it allows water immersion of up to 1 meter with no negative effects. The LTE7400 Series is a truly robust outdoor device for all places.
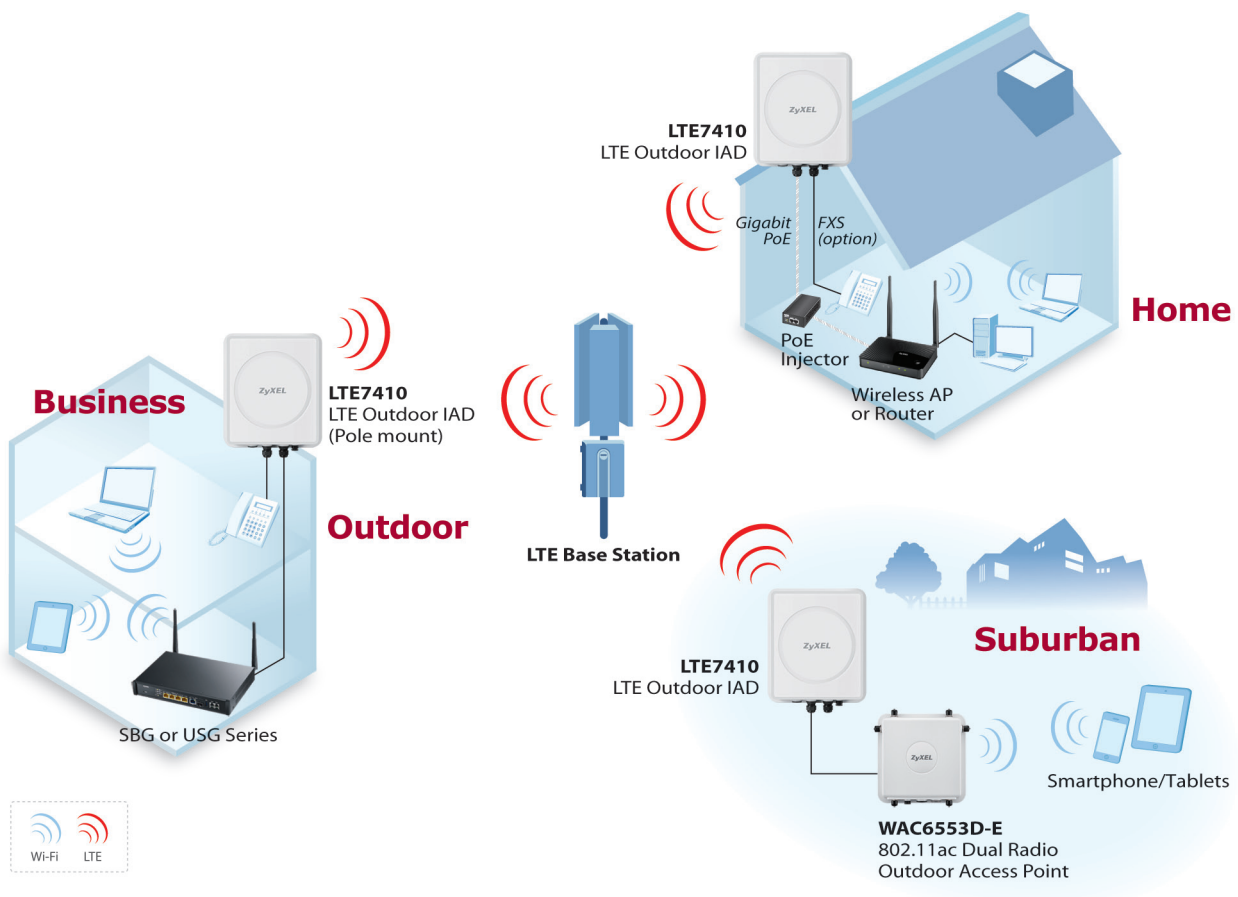
State-of-the-art technology

The LTE7400 Series employs 3GPP release 9, category 4 – the best practice of LTE technology with 150/50 Mbps (DL/UL) data rates. You can enjoy ultra-fast, flexible wireless connection anywhere within LTE signal coverage.

SIP-based VoIP communications

The SIP-based VoIP signaling supports IP telephony service deployments, and the sophisticated voice compression and QoS mechanisms allow high-quality voice communications. As most feature-rich business gateways do not support VoIP, the LTE7400 Series offers an alternative to work alongside with such business gateways.

Application Diagram

Specifications

Model		LTE7400-A207	LTE7410-A214
Product name		LTE Outdoor Router	LTE Outdoor IAD
LTE Air Interface			
Standard		3GPP release 9, category 4	
Peak data rate		LTD TDD: DL 112 Mbps/UL 10 Mbps within 20 MHz bandwidth	LTE FDD: DL 150 Mbps/UL 50 Mbps within 20 MHz bandwidth
Supported frequency		LTE Band 42/43	LTE Band 3/7/20
LTE antenna		Internal antenna	
Spatial stream		2 streams (2x2)	
Antenna gain		Up to 13 dBi (B42/43)	Up to 10 dBi (B3/7/20)
Hardware Interface			
SIM card slot		UICC/USIM card slot x 1	
VoIP		Optional	FXS/RJ-11 x 1
LAN port		10/100/1000 Mbps RJ-45 x 1 (PoE supported)	
Reset		Reset button x 1	
Power			
Power supply		Power over Ethernet via PoE injector or indoor device	
Power consumption		16 W (peak)	
IP Networking			
Bridge mode		Yes	
Router mode		Yes	
IPv4/IPv6		IPv4/IPv6 dual stack	
DHCP		Client/server/relay	
IP assignment		Static or dynamic IP assignment	
VPN connection		Client-to-site (support L2TP/GRE only)	
VPN pass-through		Yes	
NAT		NAT server (port forwarding), max. 4096 sessions	
QoS		Yes	
Voice			
SIP-voice		Optional	SIP (RFC 3261) v2, SDP (RFC 2327), RTP (RFC 1889), RTCP (RFC 1890)
DTMF			DTMF tone detection and generation
Telephony			On hook, off hook, and flash detection
Telephone ring			Normal and CCSS ringing
Voice quality			G.168 Echo cancellation, Voice Activity Detection (VAD), Silence suppression, Comfort Noise Generation (CNG), Dynamic jitter buffer, Packet Loss Concealment (PLC)
Management			
APN		Multiple APNs	
Dual configuration file		Yes	
Remote management		Secure management via Web/Telnet	
Firmware upgrade		Over-The-Air (OTA) by HTTP/GUI or TR-069	
Physical Specifications			
Item	Dimensions (WxDxH)(mm/in.)	254 x 58 x 255/10 x 2.28 x 10.04	313 x 363 x 115/12.32 x 14.29 x 4.53
	Weight (g/lb.)	1,100/2.43	2,120/4.67
Packing	Dimensions (WxDxH)(mm/in.)	355 x 16 x 390/13.98 x 0.63 x 15.34	472 x 347 x 158/18.58 x 13.66 x 6.22
	Weight (g/lb.)	2,300/5.07	3,200/7.05
Included accessories		Mounting kits	Mounting kits
Environmental Specifications			
Ingress protection		IP65	IP67
Operating	Temperature	-40℃ to 60℃/-40°F to 140°F	
	Humidity	5% to 95% (non-condensing)	
Storage	Temperature	-40℃ to 60℃/-40°F to 140°F	
	Humidity	5% to 95% (non-condensing)	

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