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.

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.

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LTE7400 Series
LTE Outdoor IAD

| 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 |
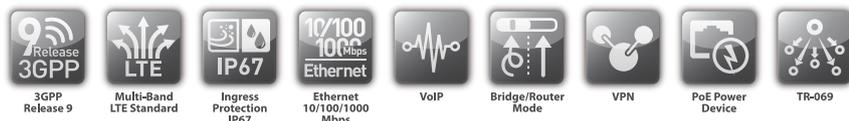
Robust IP67 hardware for harsh environments

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

LTE7410
LTE Outdoor IAD

Gigabit PoE   FXS (option)

PoE Injector

Wireless AP or Router

Home

Business

LTE7410
LTE Outdoor IAD
(Pole mount)

LTE Base Station

Outdoor

SBG or USG Series

Suburban

LTE7410
LTE Outdoor IAD

Smartphone/Tablets

WAC6553D-E
802.11ac Dual Radio
Outdoor Access Point

Wi-Fi   LTE

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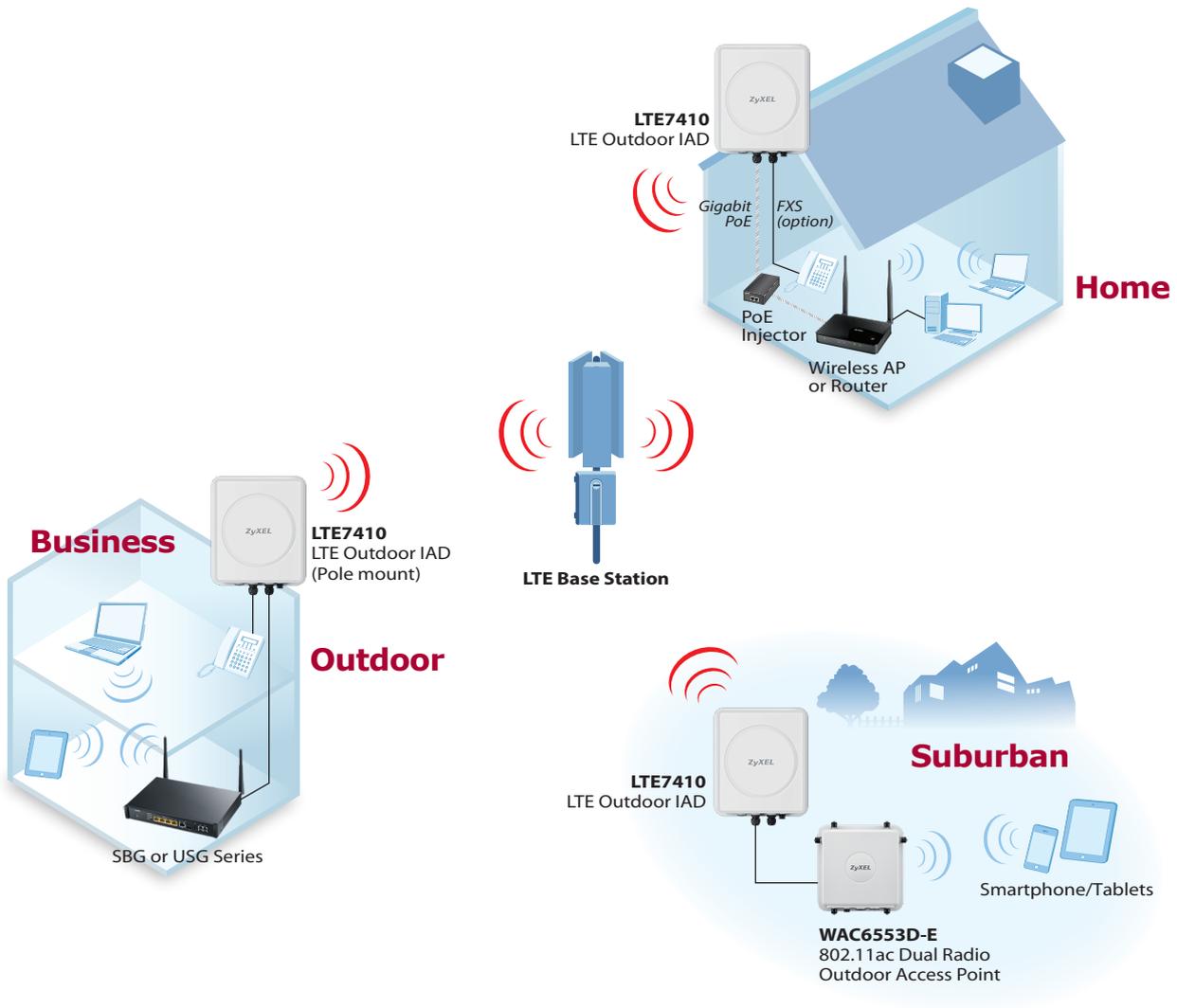
Specifications

Model	LTE7400	LTE7410
Product name	LTE Outdoor IAD	LTE Outdoor IAD
LTE Air Interface		
Standard	3GPP release 9, category 4	
Peak data rate	150 Mbps DL within 20 MHz bandwidth; 50 Mbps UL within 20 MHz bandwidth	
Supported frequency	Multi-band support with frequencies vary in different countries	
LTE antenna	Internal antenna	
Spatial stream	2 streams (2x2)	
Antenna gain	Up to 13 dBi (B42/43) Varies in different LTE frequencies	Up to 10 dBi (B3/7/20) Varies in different LTE frequencies
Hardware Interface		
SIM card slot	UICC/USIM card slot x 1	
VoIP	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	
VPN protocol	PPTP/L2TP/IPSec/GRE	
NAT	NAT server (port forwarding), max. 4096 sessions	
QoS	Yes	
VLAN	Yes	
Voice		
SIP-voice	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
Item 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
Packing 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°C to 60°C/-40°F to 140°F	
Operating Humidity	5% to 95% (non-condensing)	
Storage Temperature	-40°C to 60°C/-40°F to 140°F	
Storage Humidity	5% to 95% (non-condensing)	

Model Description

Model	Band	LTE Frequency	
LTE7400-A207	LTE Band 42/43	Band 42	TDD UL/DL: 3400 - 3600 MHz
		Band 43	TDD UL/DL: 3600 - 3800 MHz
LTE7410-A214	LTE Band 3/7/20	Band 3	FDD UL: 1710 - 1785 MHz; DL: 1805 - 1880 MHz
		Band 7	FDD UL: 2500 - 2570 MHz; DL: 2620 - 2690 MHz
		Band 20	FDD UL: 832 - 862 MHz; DL: 791 - 821 MHz

For more product information, visit us on the web at www.ZyXEL.com

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