ZyXEL

Evolved Design Enabling Innovative Services

- **3GPP release 9 category 4 with data rates of up to 150/50 Mbps (DL/UL)**
- **Supports single- (LTE) or multiple-mode (LTE/3G/2G)**
- **Multiple-band is supported and varied in different countries**
- **Supports bridge or router mode**
- **CS-voice supported (LTE3311)**

Mobile technology creates opportunities for new operators to enter networking business with lower investment comparing to building fixed-line infrastructures. To fixed-line operators, mobile network is more important as a backup to offload congested bandwidth for higher customer satisfaction. Mobile network is the trend that operators can never resist. ZyXEL, as a global leader of broadband networking, always stay ahead of the trend to offer the market with innovative designs.

The LTE3300 Series employs LTE — the latest mobile broadband technology with high popularity — to deliver the best possible data rates of up to 150/50 Mbps (DL/UL). With bridge and router modes embedded, the LTE3300 Series is adaptive to all kinds of devices/gateways for seamless integration with your CPE (Customer Premise Equipment) on-hand in a simple yet complete way to meet your needs.

Benefits

Maximum freedom of mobility
As LTE markets expand quickly, base station coverage is yet to be completed. The LTE3300 Series supports single- (LTE) and multi-mode (LTE/3G/2G) so you can stay connected even of there is only 3G or 2G services. Besides, the multi-band support also relieves the concern from varied LTE/3G frequencies in different countries. The flexibility of LTE3300 Series keeps you online around the world with the maximum freedom of mobility.
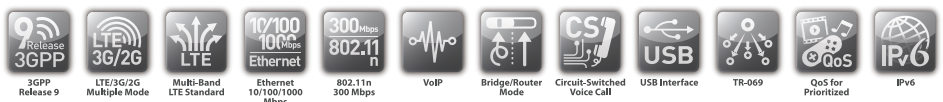
State-of-the-art technology
The LTE3300 Series employs 3GPP release 9, category 4 — the best practice of LTE technology with 150/50 Mbps (DL/UL) data rates. It also supports 3G/2G networks with the up-to-date "Dual Carrier HSPA+ (DC-HSPA+) technology" of 42/5.76 Mbps (DL/UL) data rates.You can enjoy ultra-fast, flexible wireless connection anywhere within LTE/3G/2G signal coverage.

Embedded bridge/router mode for all devices/gateways
For network integration, ZyXEL embeds both bridge and router modes into the LTE3300 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 Wi-Fi Access Points, Small Business Gateways or Enterprise Gateways. With the two built-in modes, the LTE3300 Series can be easily integrated with all kinds of devices/gateways.

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LTE3300 Series
LTE Indoor Router/IAD

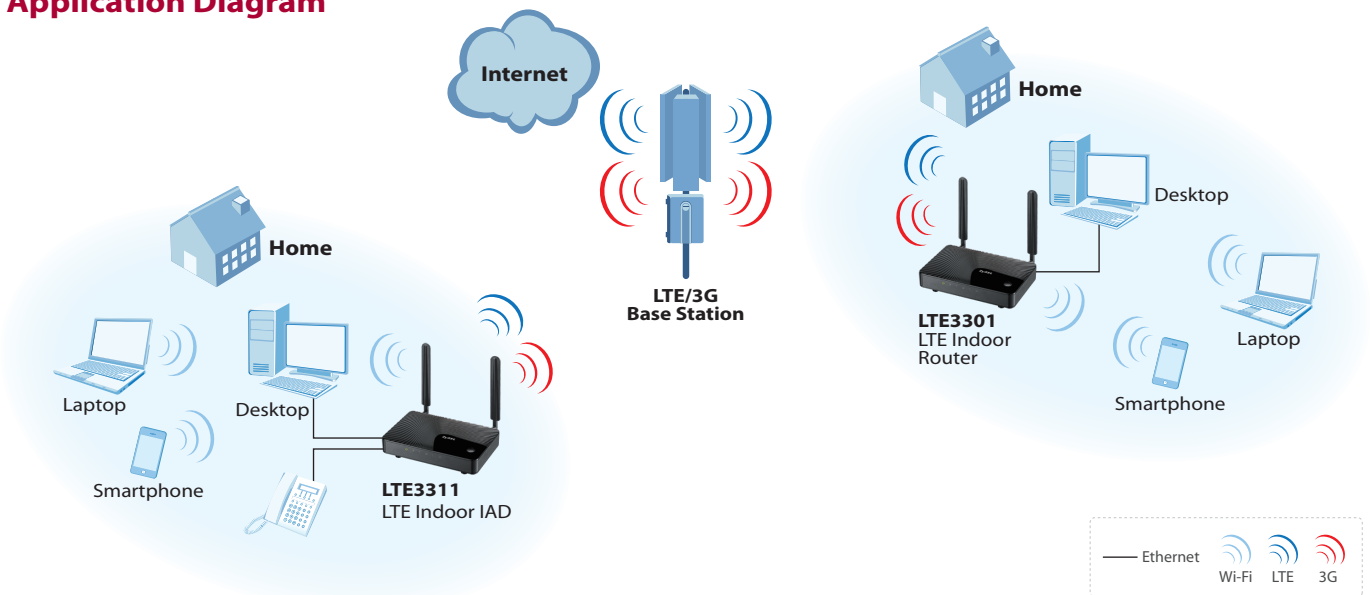| 3GPP Release 9 | LTE/3G/2G Multiple Mode | Multi-Band LTE Standard | Ethernet 10/100/1000 Mbps | 802.11n 300 Mbps | VoIP | Bridge/Router Mode | Circuit-Switched Voice Call | USB Interface | TR-069 | QoS for Prioritized | IPv6 |

High-speed Wi-Fi of up to 300 Mbps

The LTE3300 Series comes with 802.11n Wi-Fi compatibility, so you can enjoy high-speed Wi-Fi of up to 300 Mbps without additional devices. With the true wireless connection provided by the LTE3300 Series of indoor router, there's no cabling needed for either LTE WAN or wireless LAN.

VoIP and circuit-switched support for seamless voice migration*

Technologies behind voice services vary by operators; some utilize the "packet-switched" method and some choose "circuit-switched". Thanks to the LTE3300 supports to both technologies, you don't have to worry about voice functions supported by your operator. You can easily migrate the voice functions to LTE3300 Series over LTE network.

* Voice is supported on LTE3311

Application Diagram

Specifications

Model	LTE3301	LTE3311
Product name	LTE Indoor Router	LTE Indoor IAD
LTE Air Interface		
Standard	3GPP release 9, category 4	
Supported mode	Single-mode (LTE) or Multiple-mode (LTE/3G/2G)	
Supported frequency	Multiple-band support and varied by countries	
LTE antenna	2 external	
Antenna gain	Vary by different frequencies	
Spatial stream	2 streams (2x2)	
Peak data rate	150 Mbps DL within 20 MHz bandwidth; 50 Mbps UL within 20 MHz bandwidth	
Wi-Fi Air Interface		
Standard	IEEE 802.11 b/g/n (2.4 GHz)	
Wi-Fi antenna	2 internal	
Antenna gain	2 dBi	
Spatial stream	2 streams (2x2)	
Peak data rate	300 Mbps	

Model	LTE3301	LTE3311
Hardware Interface		
SIM card slot	UICC/USIM card slot x 1	
Power	On/off button x 1	
WPS	WPS button x 1	
Reset	Reset button x 1	
LAN port	10/100 Mbps RJ-45 x 4	10/100/1000 Mbps RJ-45 x 4
Wi-Fi on/off	On/Off button x 1	-
Phone port	-	FXS/RJ-11 x 1
USB port	-	USB 2.0 Host x 1
LED	Power, Internet, LTE status, LTE signal strength, Wi-Fi status, LAN status	Power, Internet, 4G/3G/2G status, LTE signal strength, Wi-Fi status, phone status, USB status
Power		
Power supply	110 - 240 VAC/12 VDC adaptor	
Power consumption	12 W (peak)	18 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 pass through	PPTP/L2TP/IPSec pass through	
NAT	NAT server (port forwarding), max. 4096 sessions	
QoS	Yes	
VLAN	Yes (At LAN side)	
Wi-Fi Security		
WEP	64/128-bit	
WPA/WPA2/WPA2-PSK	Yes	
MAC filtering	32 address supported	
Firewall	Yes	
Voice		
CS-voice (circuit-switched)	-	3GPP TS 23.272 release 9 (support CSFB from LTE to 3G)
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		
Remote management	Secure management via Web	
Firmware upgrade	Over-The-Air (OTA) by HTTP/GUI or TR-069	
Physical Specifications		
Item — Dimensions (WxDxH)(mm/in.)	186 x 120 x 30/7.32 x 4.72 x 1.18	186 x 120 x 30/7.32 x 4.72 x 1.18
Item — Weight (g/lb.)	350/0.77	400/0.88
Packing — Dimensions (WxDxH)(mm/in.)	271 x 192 x 113/10.67 x 7.56 x 4.45	271 x 192 x 113/10.67 x 7.56 x 4.45
Packing — Weight (g/lb.)	778/1.72	828/1.83
Included accessories	• LTE antenna x 2 • Power adaptor • Ethernet cable	
Environmental Specifications		
Operating — Temperature	0°C to 40°C/32°F to 104°F	
Operating — Humidity	10% to 90% (non-condensing)	
Storage — Temperature	-10°C to 70°C/14°F to 158°F	
Storage — Humidity	0% to 95% (non-condensing)	

Model Description

Model	Band	LTE Frequency	
LTE3301-A207	LTE Band 42/43	Band 42	TDD UL/DL: 3400 - 3600 MHz
		Band 43	TDD UL/DL: 3600 - 3800 MHz
LTE3301-Q222	LTE Band 3/7/8/20/40 UMTS/HSDPA/HSUPA/HSPA+/ DC-HSPA+ Band 1/8 GSM/GPRS/EDGE Quad-Band	Band 3	FDD UL: 1710 - 1785 MHz; DL: 1805 - 1880 MHz
		Band 7	FDD UL: 2500 - 2570 MHz; DL: 2620 - 2690 MHz
		Band 8	FDD UL: 880 - 915 MHz; DL: 925 - 960 MHz
		Band 20	FDD UL: 832 - 862 MHz; DL: 791 - 821 MHz
		Band 40	TDD UL/DL: 2300 - 2400 MHz
LTE3311-A207	LTE Band 42/43	Band 42	TDD UL/DL: 3400 - 3600 MHz
		Band 43	TDD UL/DL: 3600 - 3800 MHz
LTE3311-Q222	LTE Band 3/7/8/20/40 UMTS/HSDPA/HSUPA/HSPA+/ DC-HSPA+ Band 1/8 GSM/GPRS/EDGE Quad-Band	Band 3	FDD UL: 1710 - 1785 MHz; DL: 1805 - 1880 MHz
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		Band 20	FDD UL: 832 - 862 MHz; DL: 791 - 821 MHz
		Band 40	TDD UL/DL: 2300 - 2400 MHz

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