

ZISA WR800-LTE

LTE+4 Ethernet Ports+WLAN(802.11n) Router



Overview

WR800-LTE Router provide a simultaneous data service. It creates a 2.4GHz Wi-Fi network that can deliver data at speeds of up to 300Mbps. The internal 4G module could support most of LTE bands, provide optimized performance and minimize signal interference. The incorporation of advanced antennas and the latest wireless technology allows you to enjoy stable connections and incredible coverage. With the inclusion of the WAN/LAN port, WR800-LTE could also support a wide variety of connection types, including DHCP, PPPOE, PPTP, L2TP and bridge. It is a perfect solution for telecommuting, SOHO and family usage.

Future

- IEEE 802.11b/g/n 2.4GHz
- 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK encryptions
- Multi LTE TDD/FDD Bands support
- Supports IPv4 and IPv6
- Support VPN Pass-Through
- L2TP/PPTP VPN Client (optional)
- IPSEC VPN support(optional)
- DoS, SPI Firewall, IP Address Filter/Domain Filter,
- IP and MAC Address Binding
- Access Control, Local Management, Remote Management
- Dynamic IP/Static IP/PPPoE/PPTP(Dual Access)/L2TP(Dual Access)
- Traffic Control(IP QoS)
- Virtual Server, UPnP, DMZ
- DDNS
- PIN Management

Hardware Information

Hardware Interfaces

- Four RJ-45 ports for 10/100 Base-T Ethernet LAN connection to PC or Ethernet WAN port (configuration by software)
- 2 LTE external main-antenna
- 2x2 Wi-Fi internal antenna
- One RJ11 ports for connecting to normal desk phone
- One Reset button to default setting
- One Power jack
- One WPS button
- One S(U)IM card slot

Main Chipset Information

Item	Vendor	Model # & Edition
Router Chipset	MTK	MT7620A
LTE Module Chipset	Qualcomm	MDM9225

LED Definitions

Could be customized, example:

Lable	Display Color	Meaning
Power	Off	Power off or failure
	Light (Green)	Power on, normal operation
LTE Status	Off(Green),Off(Red)	WAN is not in Mobile network mode
	Light(Green),Off(Red)	LTE Good RSSI(131-198)
	Fast Blink(Green), Off(Red)	LTE bad RSSI(100-130)
	Slow Blink(Green), Off(Red)	2G/3G RSSI(1-98)
	Off (Green), Fast Blink (Red)	RSSI unknown or immesurable
	Off(Green), Light(Red)	Device is not ready
	Off(Green), Slow Blink (Red)	Device is ready and network is not registered
PPP	Off	PPP Connection is down
	Light (Green)	PPP Connection is up

Lable	Display Color	Meaning
	Blink(Green)	PPP Connection is start to link _up/ link _down but not up/down
	Slow Blink(Green)	PPP Connection is idle (On _Demand mode)
WIFI	Off	WIFI Radio is Off
	Light(Green)	WIFI Radio is on without data transporting
	Blink(Green)	WIFI Radio is on with data transporting
LAN1-4 (OR WAN)	Off	LAN(WAN) port is Off
	Light(Green)	LAN(WAN) port is on without data transporting
	Blink(Green)	LAN(WAN) port is on with data transporting
Phone	Off	Phone port is Off
	Light(Green)	Phone port is on
WPS	Off	WPS is close
	Light(Green)	WPS is OK

Software Feature

Router provides the following features:

Protocol & Features Supported	
1	RFC1009 Requirements for Internet Gateways (Link Layer issues only)
2	RFC1812 Requirements for IP Version 4 Routers
3	RFC0922 Broadcasting Internet Datagrams in the Presence of Subnets
4	RFC1256 ICMP Router Discovery Messages (Router Specification only)
5	Configuration Mode IPv4, IPv6, or Dual Stack IPv4 / v6.(IPV6 is optional)
6	DHCP/PPPoE/StaticIP/Bridge/4G/3G/2G WAN Interface
7	NAT with Application Layer Gateway(FTP,TFTP ,L2TP,PPTP,IPSEC...)
8	DDNS
9	DHCP Client/Server for IP management
10	DHCP failover to 3/4G function
11	Network Watchdog
12	LTE Network Information(Register status, RSSI, Network type and etc)
13	QoS

14	HTTP (web based) for firmware upgrade & configuration
15	DMZ/Super DMZ support
16	IP and MAC bind to prevent ARP attack
17	PIN Management
18	DNS Rrelay
19	Call forward, call barring,and etc (Optional)
20	Digital Map(Optional)
21	SMS (Optional)
Firewall Features	
1	URL/IP/MAC/Port filter
2	DoS, SPI Firewall
3	Traffic Control(IP QoS)
Virtual private network support	
1	Standard L2TP/PPTP VPN Client mode (optional)
2	Support IPSec VPN gateway mode (optional)
Diagnostic	
1	Support diagnostic function
Management features & functionalities	
1	OTA Remote firmware upgrade
2	TFTP/FTP firmware upgrade
3	Telnet/SSH
4	Support WEB GUI interface
5	Support for backup & restore configuration to/from PC
6	Support TR069 and related protocols (Optional)
7	NTP
General Specification & Operational requirement	
1	Support in Windows 98, Windows 2000, Windows XP, Windows Vista, Windows 7&8, Linux, Apple and Mac OS for Ethernet and WIFI
2	System Log
WLAN Features	
1	Wireless Standard and feature - 802.11g/802.11b/802.11n
2	64/128 bit WEP support
3	MAC association control

4	WPA with pre shared keys
5	Support Multiple SSIDs (Optional)
6	Dynamic WEP Key
7	Support for WPA,WPA2, WPA PSK, TKIP
8	Support 802.1X
9	Support MAC scan functions

Specifications and Standards

Mechanical

Dimension: 142mm*98mm*20mm

Electrical

LTE Specification

Item	Description
Platform and Chipset	
Baseband Chipset	Qualcomm MDM9225
Hardware Specifications	
Working Frequency	LTE-TDD Band 38/39/40/41(2600/1900/2300/2500MHz) P520A-1 <ul style="list-style-type: none"> • LTE FDD B1/B2/B3/B5/B7/B8/B12/B17/20 • TD-LTE B38/B40 • UMTS/HSPA/HSPA+ 850/900/1800/1900/2100Mhz • GSM/GPRS/EDGE 850/900/1800/1900Mhz P520A-2 <ul style="list-style-type: none"> • LTE FDD B1/B2/B3/B5/B7/B8/B28 • TD-LTE B38/B39/B40/B41 TDS B34/B39 • UMTS/HSPA/HSPA+ 850/900/1800/1900/2100Mhz • GSM/GPRS/EDGE 850/900/1800/1900Mhz
Software Specifications	
Date Performance	LTE TDD DL/UL 112/10 Mbps LTE FDD DL/UL 150/50 Mbps TD-SCDMA DL/UL 4.2/2.2 Mbps HSPA+ DL/UL up to 42/5.76 Mbps

Power Requirements:

Uses an AC adapter that can supply DC voltages.

AC power adaptor: 100VAC-240VAC

DC voltage: 12V,1A

Heat & Power Dissipation

Power: < 6W(*is changeable)

Environmental

Complies with the following standards:

- Temperature:
 - 10 to 50 degrees C (Standard Operating)
 - 20 to 70 degree C (Non-operating)
- Humidity:
 - 10% to 95% (Non-condensing, Standard Operating)
 - 5% to 95% (Non-condensing, Non-operating)
- Vibration: IEC 68-2-36, IEC 68-2-6
- Shock: IEC 68-2-29
- Drop: IEC 68-2-3

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