Product Specifications

LTE&WLAN Router

LTE+4 Ethernet Ports+WIFI

1.PRODUCT OVERVIEW

1.1 Introduction

YF224 Router support several different kinds of WAN interface and 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, YF224 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.

1.2 Key Feature

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

2 SPECIFICATIONS AND STANDARDS

Item	Description
Platform and Chipset	
Chipset	PXA1802 /MT7620A
Dimension	Dimension:142mm*98mm*20mm
Working Frequency	
Verion1	**LTE-FDD Band 1/3/7/8/20 (2100/1800/2600/900/800MHz)** **LTE-TDD Band 38/39/40/41(2600/1900/2300/2500MHz)** **HSPA+/UMTS/WCDMA Band 1/2/8 (2100/1900/900MHz)** **TDSCDMA: B34/B39**
Version2	**LTE FDD B1/B2/B3/B5/B7/B8/B28** **TD-LTE B38/B39/B40/B41 TDS B34/B39** **UMTS/HSUPA/HSPA+ 850/900/1800/1900/2100Mhz** **GSM/GPRS/EDGE 850/900/1800/1900Mhz**
Software Specifications	
Date Performance	LTE FDD DL150Mbps / UL50Mbps LTE TDD DL150Mbps / UL50Mbps HSPA+/UMTS/WCDMA DL 21.6Mbps / UL 5.76Mbps TD SCDMA DL 2.8Mbps UL 2.2Mbps
Power Requirements	
AC power adapter	100VAC-240VAC
DC voltage	12V,1A
Environmental	
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

3 HARDWARE INFORMATION

3.1 Hardware Interfaces

■One RJ-11 port, 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 Reset button for default setting

■One Power jack

■One WPS button

■One (U)SIM card slot

3.2 Main Chipset Information

Item	Vendor	Model # & Edition
Router Chipset	MTK	MT7620A
LTE Module Chipset	Marvell	PXA1802

4 SOFTWARE FEATURES

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/PPOE/Static IP/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 3G/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 Relay
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	
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

5.PRODUCT PICTURES