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F3A36 LTE WIFI ROUTER TECHNICAL SPECIFICATION



General

F3A36 LTE WIFI ROUTER is a kind of cellular terminal device that provides large data transfer function by public LTE network.

It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS485/RS422), Ethernet and WIFI port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial, Ethernet and WIFI devices with only basic configuration.

It has been widely used on M2M fields, such as self-service terminal industry, intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.



Product Feature------Product Feature------

Design for Industrial Application

- High-powered industrial cellular module
- High-powered industrial 32bits CPU
- Support low-consumption mode, including sleep mode, scheduled online/offline mode, scheduled power-on/power-off mode(optional)
- ◆ Housing: iron, providing IP30 protection.
- ◆ Power range: DC 5~36V

Stability and Reliability

- Support hardware and software WDT
- Support auto recovery mechanism, including online detect, auto redial when offline to make router always online
- ◆ Ethernet port: 1.5KV magnetic isolation

- ◆ RS232/RS485/RS422 port: 15KV ESD protection
- ◆ SIM/UIM port: 15KV ESD protection
- Power port: reverse-voltage and over-voltage protection
- ◆ Antenna port: lightning protection(optional)

Standard and Convenience

- Support standard RS232(or RS485/RS422), Ethernet and WIFI port that can connect to serial, Ethernet and WIFI devices directly
- Support standard WAN port and PPPOE protocol that can connect to ADSL directly
- Support intellectual mode, enter into communication state automatically when powered

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- Provide management software for remote management
- Support several work modes
- ◆ Convenient configuration and maintenance interface (WEB or CLI)

High-performance

- Support multiple WAN access methods, including static ip, DHCP, PPPOE, 3G/UMTS/4G/LTE.
- Support double link backup between LTE and WAN(PPPOE, ADSL) (optional)
- Support VPN client(PPTP, L2TP, IPSEC)(only for VPN version)
- Support VPN server(PPTP, L2TP, IPSEC)(only for VPN version)
- Support local and remote firmware upgrade,import and export configure file.
- ◆ Support NTP, RTC embedded.
- Support multiple DDNS provider service.
- Support VLANs, MAC Address clone, PPPoE Server

- WIFI support 802.11b/g/n. support AP, client, Adhoc, Repeater, Repeater Bridge mode.
- WIFI support WEP,WPA,WPA2 encryption,Support MAC address filter.
- Support multiple online trigger ways, including SMS, ring and data. Support link disconnection when timeout
- ◆ Support APN/VPDN
- Support DHCP server and client, firewall, NAT, DMZ host, URL block, QoS, traffic statistics, real time link speed statistics etc.
- Full protocol support, such as TCP/IP, UDP, ICMP, SMTP(optional), HTTP,
 POP3(optional), OICQ(optional), TELNET,
 FTP(optional), SNMP, SSHD, etc.
- Schedule Reboot, Schedule Online and Offline,etc.

Product Specification ------

Cellular Specification

Cellular Module	Content
Cellular Module	Industrial cellular module
Standard and Band	TDD-LTE、FDD-LTE、EVDO、WCDMA、TD-SCDMA、CDMA1X、GPRS/EDGE
Bandwidth	FDD LTE(Download speed:100Mbps, upload speed:50Mbps)
	TDD LTE(Download speed:68Mbps,upload speed:17Mbps)
	CDMA2000 1X EVDO Rev A (Download speed:3.1Mbps, upload speed:1.8Mbps)
	WCDMA(Download speed:42Mbps, upload speed:5.76Mbps)
	TD-SCDMA(Download speed:4.2Mbps, upload speed:2.2Mbps)
TX power	<23dBm
RX sensitivity	<-93.3dBm

WIFI Specification

Item	Content
Standard	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps (max)
	IEEE802.11n: 150Mbps (max)
Security	WEP, WPA, WPA2, etc.

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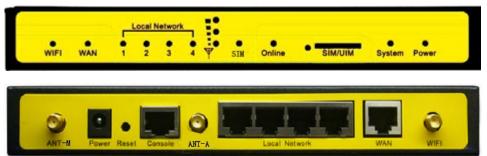
	WPS (optional)
TX power	20dBm (11n) , 24dBm (11g) , 26dBm (11b)
RX sensitivity	<-72dBm@54Mpbs

Hardware System

Item	Content
CPU	Industrial 32bits CPU
FLASH	16MB(Extendable to 64MB)
DDR2	128MB

Interface type

Item	Content
WAN	1 10/100 Mbps WAN port(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection
LAN	4 10/100 Mbps Ethernet ports(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection
Serial	1 RS232(or RS485/RS422) port, 15KV ESD protection
	Data bits: 5, 6 ,7, 8
	Stop bits: 1, 1.5(optional), 2
	Parity: none, even, odd, space(optional), mark(optional)
	Baud rate: 2400~115200 bps
Indicator	"Power", "System", "Online", "SIM", " Local Network ", "WAN", "WIFI", "Signal Strength"
Antenna	Cellular: 2 Standard SMA female interface, 50 ohm, lighting protection(optional)
	WIFI: 1 Standard SMA male interface, 50 ohm, lighting protection(optional)
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection
Power	Standard 3-PIN power jack, reverse-voltage and over-voltage protection
Reset	Restore the router to its original factory default settings



Power supply

Item	Content
Standard Power	DC 12V/1.5A
Power range	DC 5~36V

Consumption

Working	Consumption
condition	

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Standby	293~326mA@12VDC
Communication	310~554mA@12VDC
Schedule Shutdown	2.57~4.2mA@12DVC

Physical Characteristics

Item	Content
Housing	Iron, providing IP30 protection
Dimensions	206x135x28 mm
Weight	790g

Environmental Limits

Item	Content
Operating	-35~+75°C (-31~+167°F)
Temperature	
Storage	-40~+85°C (-40~+185°F)
Temperature	
Operating	95% (unfreezing)
Humidity	

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