

F3936

ROUTER

Technical Specification

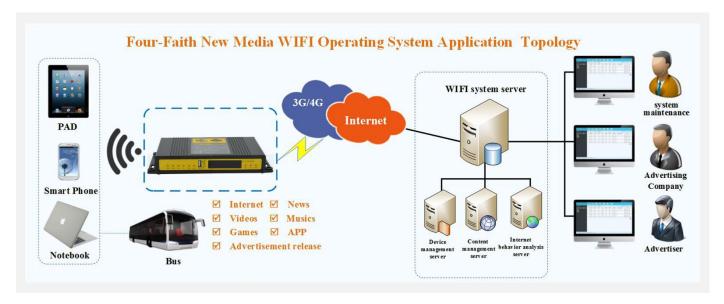


F3936 is a vehicle WIFI new media operating terminal and it integrates the advanced 3G/4G/WIFI communication GPS/beidou(optional) positioning technology, local large-capacity storage and multimedia advertising push technology. The passengers can use smart phones, PAD and notebook to enjoy freely the local videos, news, music, games, and quickly connecting the Internet, etc. And media operators may carry out more value added services.

F3936 has been already widely used in public transportation, tourism, finance and medical industries, such as urban public transport, customized bus, bus stations, tour bus, long-distance passenger bus, tourist attractions, bank, hospital and so on.



Application Topology



Product Specification

Design for Vehicle Application

- High-powered 32bits CPU
- Vehicle power supply design, support under-voltage, over-voltage, over-current, reverse connection, short circuit, surge protection
- Wide Power range(DC 9~36V)
- Wide Operating Temperature(-35~+75°C)
- Aviation plug for power input
- Metal shell, high heat radiating and anti collision performance
- Shockproof design, suitable for vehicle vibrating environment
- Security structure design for TF/SIM card

Stability and Reliability

- Support hardware and software WDT to ensure the stability of the system
- Support auto recovery mechanism, including online detect, auto redial when offline to make router always online
- Data storage with SSD, ensure the data security and stability on high speed read and write
- Ethernet port: 1.5KV magnetic isolation protection
- RS232/RS485/RS422 port: 15KV ESD protection
- SIM/UIM port: 15KV ESD protection
- Antenna port: lightning protection(optional)

Add: 3rd Floor, No. 44, Guan Ri Road, Software Park, Xiamen, China Web: en.four-faith.com Tel: +86-592-5907276 5907277

Mail: sales@four-faith.com

nick@four-faith.com

Xiamen Four-Fai th Communication Technology Co., Ltd.



Standard and Convenience

- Support all kinds of the Intelligent WIFI terminals
- Smart data terminal, enter into communication state automatically when powered
- Provides standard wired network and wireless 3G/4G network
- Small size device, rapid establishment of wireless network to use
- Provide powerful business platform for equipment management, content management and release, report management, user behavior statistics analysis, authority management, alarm management, billing system (optional) and other functions

High-performance

- Support website redirection, local captive portal, remote captive portal(optional)
- Support various authentication ways, including mobile phone number authentication, Wechat authentication, Weibo authentication, QQ authentication and without authentication
- Support WIFI channel hopping for anti-interference
- Support English SSID
- Support SSD(Solid State Disk) and TF card for local storage(TF card is optional)
- WIFI TX power is configurable for optimized wireless coverage
- Support WEB server. Supports PHP, XML, and database storage(optional)
- Support WIFI inspector
- Support black/white list of URL, accout, IP address, MAC address
- Support traffic statistics. Support monitoring of device traffic, user traffic and online duration monitoring
- Support user's surfing behavior record, local PV/UV statistics and transmit these data to server at real time for data statistics analysis
- Support real time log auditing based on user's URL access
- Local information contains advertisement, news, APP, video, music, etc. Support various video formats and streaming media delivery
- Local information update support whole update and incremental update, support grouping update, support break-point resume and outage resume, support A/B backup, support update via 3G/4G, FTP, station WIFI(optional) and U disk upgrades (optional)

Add: 3rd Floor, No. 44, Guan Ri Road, Software Park, Xiamen, China Web: en.four-faith.com Tel: +86-592-5907276 5907277

Mail: sales@four-faith.com

nick@four-faith.com



- Support remote firmware upgrade, including upgrade on single device, devices in patch and automatic upgrade(optional), support break-point resume, outage resume(optional), U disk upgrades (optional)
- Support remote terminal parameters configuration, can be a single, batch configuration, custom configuration, at the same time support online/offline equipment configuration and U disk field configuration (optional)
- Support monitoring device status at real time, including CPU, memory, signal strength, network status, storage and alarm
- Supports completed functionality of router
- Support SPI firewall, access restriction, URL filter, QoS, NAT, etc
- Support NTP, schedule reboot and schedule boot/shutdown with in built RTC
- Support various WAN connection types, including static IP, DHCP, PPPoE, 3G / 4G, etc
- Support 3G/4G network and Ethernet WAN for backup(optional)
- Support VPN client and VPN server(PPTP, L2TP, OPENVPN, IPSEC and GRE(only VPN version supports)
- Support the GPS/beidou positioning function (optional)

Add: 3rd Floor, No. 44, Guan Ri Road, Software Park, Xiamen, China Web: en.four-faith.com Tel: +86-592-5907276 5907277

Mail: sales@four-faith.com

nick@four-faith.com



Product Specification

Cellular Specifi	cation				
Item	Content				
Cellular Module	High-performance cellular module (optional single module, double module or no module)				
Standard	Can support: TDD-LTE/FDD-LTE/EVDO/WCDMA/TD-SCDMA/CDMA1X/GPRS/EDGE Optional support:single-mode,multi-mode or All network communication				
Bandwidth	FDD LTE(DL:100Mbps,UL:50Mbps) TDD LTE(DL:61Mbps,UL:18Mbps) CDMA2000 1X EVDO Rev A (DL:3.1Mbps,UL:1.8Mbps) WCDMA(DL:42Mbps,UL:5.76Mbps) TD-SCDMA(DL:4.2Mbps,UL:2.2Mbps)				
TX power	<24dBm				
RX sensitivity	<-109dBm				
GPS Specificati	on				
Item	Content				
GPS Module	Industrial GPS module(optional beidou module)				
Receiver Type	50-channle GPS L1 (1575.42MHz)C/A code SBAS: WAAS,EGNOS,MSAS,GAGAN				
Max. update rate	5 Hz				
Accuracy	Position: 2.5m CPE SBAS: 2.0m CPE				
Sensitivity	Tracking: -160dBm Reacquisition: -160dBm Cold starts: -146dBm				
WIFI Specificat	tion				
Item	Content				
Standard	IEEE802.11b/g/n, 2.4G, 2*2 MIMO,AP model, Station model(optional)				
Bandwidth	IEEE802.11b/g: 108Mbps (max) IEEE802.11n: 300Mbps (max)				
Security	WEP, WPA, WPA2, etc. WPS (optional)				
TX power	20dBm (11n),21.5dBm (11g),26dBm (11b)				
RX sensitivity	<-75dBm@54Mpbs				
Hardware Syste	em				
Item	Content				
CPU	High-performance 32bits CPU				
FLASH	32MB(Extendable to 64MB)				

Add: 3rd Floor, No. 44, Guan Ri Road,

Software Park, Xiamen, China Mail: sales@four-faith.com Web: en.four-faith.com nick@four-faith.com

Tel: +86-592-5907276 5907277



DDR2	256MB			
SSD	128GB(optiona,Extendable to 2TB)			
TF	32GB(optional)			
Interface type				
Item	Content			
WAN	1 10/100 Mbps WAN port(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection			
LAN	1 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: 8(optional 5, 6, 7)			
	Stop bits: 1, 1.5(optional), 2			
	Parity: none, even, odd, space(optional), mark(optional)			
	Baud rate: 2400~115200 bps			
Indicator	"PWR"、"SYS"、"SIM"、 "GPS"、"Online"、"SSD"、"TF"、"LAN"、"WAN"、"WIFI", "Signal Strength"(Indicator			
	according to the configuration)			
	Cellular: Standard SMA female interface, 50 ohm, lighting protection(optional one, two or not)			
Antenna	GPS:One standard SMA female interface, 50 ohm, lighting protection(optional)			
	WIFI: Two standard SMA male interface, 50 ohm, lighting protection			
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection			
USB	Standard A type USB host interface, support USB 2.0 High-speed			
TF	Standard TF card interface			
Power	Aviation plug or vehicle power jack, reverse-voltage and overvoltage protection			
Reset	Restore the router to its original factory default settings			



Power supply					
Item			Content		
Standard Power	DC 12V/1.5A				
Power range	DC 9~36V				
Working current	3G: <750mA(12V)	4G: <850mA(12V)			
Standby current	3G: <450mA (12V)	4G: <500mA (12V)			
Physical Characteristics					
Item			Content		
Housing	Metal shell, shock proof	design			

厦门四信通信科技有限公司 Xiamen Four-Fai th Communication Technology Co., Lt d.

Add :3rd Floor, No. 44, Guan Ri Road, Software Park, Xiamen, China

Web : en.four-faith.com

Tel: +86-592-5907276 5907277

Mail: sales@four-faith.com

nick@four-faith.com



Dimensions	244x139x36 mm			
Weight	940g			
Other Specification				
Item	Content			
Operating	-35~+75°C (-31~+167°F)			
Temperature	-55~±75 C (-51~±107 F)			
Storage	-40~+85°C (-40~+185°F)			
Temperature	-40~+03 C (-40~+103 1)			
Operating Humidity	95% (unfreezing)			

Xiamen Four-Fai th Communication Technology Co., Ltd.

Add: 3rd Floor, No. 44, Guan Ri Road, Software Park, Xiamen, China Web: en.four-faith.com Tel: +86-592-5907276 5907277 Mail: sales@four-faith.com

nick@four-faith.com