

4G LTE / WCDMA Dual Module, Active / Active SIM Cellular & WiFi Router, GSF 9364

General



GSF 9364 LTE & WCDMA Router is a Cellular device that provides data transmission function by public LTE / WCDMA / TD-SCDMA/EVDO network
It uses Industrial 32-bits CPU and embedded real time operating system
It supports RS232 (or RS485/RS422), Ethernet and WiFi ports that can conveniently and transparently connect your existing Serial and Ethernet devices to a cellular network
It has been widely used on M2M fields, such as self-service terminal, intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.
Support Modbus RTU to Modbus TCP Conversion.

Product Feature

Designed for Industrial Application
High-powered Industrial cellular module
High-powered Industrial 32bits CPU
Dual Module design, ACTIVE/ACTIVE mode supported
Support Load balancing & Load Shunt
Support low-consumption mode, including sleep mode, Scheduled online/offline mode, Scheduled power-on/power-off mode (optional)
Housing : Iron. IP30 protection
Power range : DC 5 to 36V

Dual SIM, Dual Module and ACTIVE/ACTIVE mode supported
Support standard RS232 (or RS485/RS422), Ethernet & WiFi port that can connect to Serial, Ethernet & WiFi devices directly.
Support standard WAN port & PPPoE protocol that can connect to ADSL directly
Enter into communication state automatically when powered
Support several work modes
Convenient configuration and maintenance interface WEB or CLI

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 protection
RS232/RS485/RS422 port : 15KV ESD protection
SIM/UIM port : 15KV ESD protection
Power port : Reverse-voltage and Overvoltage protection
Antenna port : Lightening protection (optional)

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High-performance

Support Master module, Standby module and WAN (PPPOE, ADSL) Optional triple link backup

Support 2G/3G/4G/Static IP/DHCP/L2TP, PPTP, PPOE WAN access methods

Support double link backup between LTE/WCDMA and WAN (PPPOE, ADSL) (optional)

Support VPN client (PPTP, L2TP, OPENVPN, IPSEC and GRE) (only for VPN version)

Support VPN server (PPTP, L2TP, OPENVPN, IPSEC and GRE) (only for VPN version)

Support NTP, RTC embedded

Support multiple DDNS providers

Support VLAN, MAC Address clone, PPPoE Server

Support WiFi 802.11 b/g/n, AP Client, Adhoc, Repeater Bridge mode

WiFi support WEP, WPA, WPA2 encryption and MAC address filter

Support multi trigger ways, 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, TCP/IP, UDP, ICMP, HTTP, HTTPS, Optional SMTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, IPCP, ARP, SNTP, TFTP etc.

Support Modbus RTU to Modbus TCP Conversion.

Support Advanced Routing RIP, OSPF, BGP

Support EoIP tunnels.

Support Port Bridging.

Support Packet filter.

Support local and remote firmware upgrade, import and export configure file.

Schedule Reboot, Schedule Online and Offline, etc.

Product Specification

Cellular Specification

Cellular Module	Industrial Cellular module		
Standard and Band	Main & Standby Module		
	LTE FDD	: 2600/2100/1800/900/800MHz, (Band 1/3/7/8/20)	
		: 700/1700/2100MHz (Band 2/4/5/13/17/25 optional)	
	LTE TDD	: 2600/1900/2300MHz (Band 38/39/40/41)	
		: 800 / 1400 / 1800 MHz. Band 27/61/62 Optional	
	DC-HSPA+/HSPA+/HSDPA/HSUPA/WCDMA /UMTS		
		: 2100 / 1900 / 900 / 850 / 800 MHz (Band 1, 2, 5, 6, 8)	
	EDGE/GPRS/GSM	: 900/1800/1900MHz	
Bandwidth	FDD LTE	: DL	: 100Mbps, UL : 50Mbps
	TDD LTE	: DL	: 61Mbps, UL : 18Mbps
TX power	: <24 dBm		
RX sensitivity	: < -109 dBm		

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WiFi Specs

IEEE802.11 b/g/n : 54Mbps for 11b/g & 150 Mbps for 11n
: WEP, WPA, WPA2
Tx Power : 20dBm for 11n, 24 dBm for 11g & 26 dBm for 11b
RX sensitivity : <-72dBm@54Mbps

Hardware System

CPU Industrial 32bits CPU
FLASH 16MB (Extendable to 64MB)
DDR2 128MB (Extendable to 256MB)

Interface type

Ethernet 1*10/100 Mbps WAN port, 4*10/100 Mbps Ethernet Ports, Auto MDI/X
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, mark) (optional)
Baud rate 2400 to 115200 bps
Indicator PWR, SYS, SIM, Online 1 & 2, Local Network, WAN, WiFi, ETH, Signal Strength
Antenna Double Cellular & 1 WiFi, characteristic impedance 50 ohm
SIM/UIM Standard 3V/1.8V user card interface, 15KV ESD protection
Reset Restore the Router to its original factory default settings

Power supply

Standard Power DC 12V/1.5A from external 230V AC adapter
Power range DC 5 to 36V
Power Standard RCA Power Jack, Reverse and Overvoltage protection

Power consumption

Standby 290 to 360 mA@12VDC
Working 340 to 610 mA@12VDC
Timing shutdown 2.57 to 4.2 mA@12VDC

Physical Characteristics

Housing Iron
Ingress Protection IP30
Dimensions 207x135x28 mm
Weight 810g

Environmental Limits

Operating Temperature -35 to +75°C
Storage Temperature -40 to +85°C
Operating Humidity 95% non condensing
MTBF 50000 hours

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Ordering Code	: Model GSF 9364 XXX
GSF 9364	: 4G Cellular Router with Dual Active SIM 1 WAN, 4 LAN, 1 WiFi and 1 Serial port
XXX	: RS232 or RS485 for Serial port

 CE Approved