

4G LTE & WCDMA Cellular Router, Model GSF 8372 DNP

General



LTE&WCDMA Router is a cellular device that provides data transmission function by public LTE-FDD network

It uses Industrial 32-bits CPU and embedded real time operating system

It supports RS232 (or RS485/RS422) and Ethernet port 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.

Product Features

- ✓ Designed for Industrial Application
- ✓ High-powered Industrial cellular module
- ✓ High-powered Industrial 32bits CPU
- ✓ Support Modbus RTU (Input) to Modbus TCP / DNP3 Ethernet protocol conversion.
- ✓ Supports Modbus register type Coil, Digital Inputs, Holding Registers and Input Registers for polling field devices by Modbus queries configuration
- ✓ Supports DNP3 data types Analog Inputs, Binary Inputs, Analog Outputs, Binary Outputs and Analog Input Events
- ✓ Supports storage upto 8MB for storing events using Timestamp in case Cellular internet disconnects

Stability and Reliability

- ✓ Support Hardware and Software Watch Dog Timer
- ✓ Real Time Clock
- ✓ Support Auto recovery mechanism, including online detect, auto redial when offline to make router always online
- ✓ Support low-consumption mode, including sleep mode, scheduled online/offline mode, scheduled power-on/power-off mode (optional)

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	: Lightning protection (optional)

Standard and Convenience

- ✓ Support standard RS232 (or RS232/RS485/RS422), Ethernet port that can connect to Serial, Ethernet devices directly
- ✓ Enter into communication state automatically when powered
- ✓ Convenient configuration and maintenance interface WEB or CLI



High-performance

- ✓ Support 3G/HSPA/4G WAN access methods
- ✓ Support VPN Client & Server, DES, 3DES, AES, SHA-1 Protocol, DH2, DH encryption.
- ✓ Support VPN client and Server, PPTP, L2TP, OPENVPN, IPSEC and GRE
- ✓ Support local and remote firmware upgrade, import and export configure file.
- ✓ Support NTP, RTC with Battery backup built in
- ✓ Support multiple DDNS providers
- ✓ Support MAC Address clone, PPPoE Server
- ✓ 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, SMTP, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, Modbus RTU to Modbus TCP Conversion, Modbus RTU to DNP3 Ethernet
- ✓ Schedule Reboot, Schedule Online and Offline, etc.

Product Specification

Cellular Specification

Cellular Module	Industrial Cellular module
Standard and Band	LTE FDD 2600/2100/1800/900/800MHz, 700/1700/2100MHz (optional) LTE TDD 2300/2500/2600 MHz HSPA+/HSDPA/HSUPA/WCDMA /UMTS 800/850/1900/2100MH EDGE/GPRS/GSM 900/1800/1900MHz GPRS CLASS 10 GPRS CLASS 12
Bandwidth	LTE (DL: 100Mbps, UL: 50Mbps) HSUPA : 5.76Mbps (UL) HSDPA : 7.2Mbps (DL) UMTS : 384Kbps (DL/UL) HSPA+ : 21Mbps (DL) 5.76Mbps (UL)
TX power	<32dBm
RX sensitivity	-93.3dBm

Hardware System

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

Interface type

Ethernet	1 of 10/100 Mbps Ethernet port (RJ45), Auto MDI/MDIX 1.5KV magnetic isolation protection
Serial	1 of 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

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Indicator	PWR, SYS, SIM, Online, ETH, Signal Strength
Antenna	Double antenna interface, 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
<u>Power supply</u>	
Standard Power	DC 12V/1.5A
Power range	DC 5 to 36V
Power	2-pin TB. Power Jack, Reverse Voltage and Overvoltage protection

<u>Power consumption</u>	
Standby	99 to 130mA@12VDC
Working	215 to 290mA@12VDC
Timing shutdown	3.15 to 3.70mA@12VDC

<u>Physical Characteristics</u>	
Housing	Metal, providing IP30 protection
Dimensions	100x97x25 mm
Weight	320g

<u>Environmental Limits</u>	
Operating Temperature	-35 to +75°C
Storage Temperature	-40 to +85°C
Operating Humidity	95% non condensing

Ordering Code	: Model GSF 8372 DNP XXX
GSF 8372	: 4G Cellular Router with 1 LAN and 1 Serial port
DNP	: Modbus RTU/Modbus TCP DNP3 Ethernet Conversion
XXX	: 232 for RS232, 485 for RS232/RS485/RS422 Serial Port