

### 3G Cellular Router, Model GSF 4372



3G Router is a cellular terminal device that provides data transfer function by WCDMA/HSDPA/HSUPA/HSPA+ network. It uses high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS232/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 and Ethernet devices

It has been widely used on M2M fields, such as 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.

### Design for Industrial Application

- Support low-consumption mode
  - Sleep mode
  - Scheduled online/offline mode
  - Scheduled power-on /off mode (optional)
- Support auto recovery mechanism, including online detect, auto redial when offline to make router always online
- Enter into communication state automatically when powered ON
- Support multi online trigger ways, including SMS, ring and data
- Support link disconnection when timeout
- Schedule Reboot, Schedule Online and Offline etc
- Supports Modbus RTU to Modbus TCP Conversion

### Specification

#### Cellular Specification

Standard and Band	: UMTS / WCDMA / HSDPA / HSUPA / HSPA+ 850/1900/2100 MHz
	: 850/900/1900/2100MHz (optional)
	: GSM850/900/1800/1900MHz, GPRS/EDGE CLASS 12
Bandwidth	: DC-HSPA+ : 42 Mbps (Download speed), 5.76 Mbps (Upload speed)
	: HSPA+ : 21 Mbps (Download speed), 5.76 Mbps (Upload speed)
	: HSDPA : 7.2 Mbps (Download speed)
	: HSUPA : 5.76 Mbps (Upload speed)
	: UMTS : 384 Kbps (DL/UL)
TX power	: <24dBm
RX sensitivity	: <-109dBm

#### Interface type

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

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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

## SOFTWARE

### PROTOCOLS

TCP/IP, UDP, ICMP, SMTP, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, Modbus  
RTU, Modbus TCP etc  
DHCP Server and Client, Firewall, NAT, DMZ host, URL block, QoS, tariff, statistics, Real time  
link speed statistics etc  
Multiple DDNS provider service  
Support APN/VPDN  
Support MAC Address clone, PPPoE Server  
VPN : VPN client (PPTP, L2TP, OPENVPN, IPSEC and GRE)  
Configuration : WEB or CLI

## SYSTEM

Hardware and Software Watch Dog Timer  
Support NTP and RTC  
Support local and remote firmware upgrade, import and export configure file  
Indicator : Power, System, Online, Link/ACT, Alarm, Signal Strength  
Antenna : Dual, Y in, Characteristic Impedance 50 ohm, lightning protection (optional)  
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, Power range DC 5 to 35V  
Power : Standard 3-PIN power jack, reverse-voltage and overvoltage protection  
Consumption : <350mA (12V)

## Physical Characteristics

Housing : Iron  
Ingress Protection : IP30  
Dimensions : 100 x 97 x 25 mm  
Weight : 320g

## Environmental Limits

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

## Ordering Code : GSF 4372 XXX

GSF 4372 : 3G Cellular Router with 1 LAN & 1 Serial port  
XXX : RS232 or RS232/485 for Serial port