SRX-420 Series GPRS/3G/4G ROUTER TECHNICAL SPECIFICATION
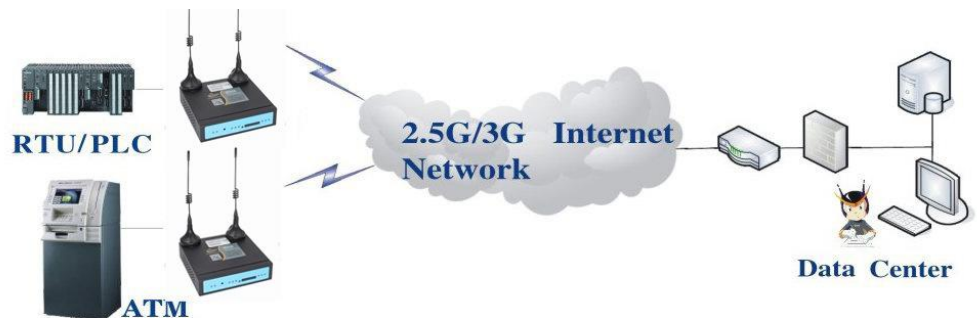

General
SRX-420 Series Cellular ROUTER is a kind of cellular terminal device that provides large data transfer function by public GPRS/EDGE/UMTS/HSDPA/HSUPA/HSPA+/LTE network.

It adopts high-powered 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 one device to a cellular network, allowing you to connect to your existing serial and Ethernet devices with only basic configuration.

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 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 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 RS485/RS422), Ethernet port that can connect to serial, Ethernet devices directly

◆ Support intellectual mode, enter into communication state automatically when powered

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

High-performance

◆ Support 3G/HSPA/4G WAN access methods.
◆ 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 local and remote firmware upgrade, import and export configure file.
◆ Support NTP, RTC embedded.

◆ Support mulitiple DDNS provider service.
◆ Support MAC Address clone, PPPoE Server
◆ Support multi 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, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, etc.
◆ Schedule Reboot, Schedule Online and Offline, etc.

Product Specification ---

Cellular Specification

Item	Content
Cellular Module	Industrial cellular module
Standard and Band	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20 (2100/1900/1800/1700/850/2600/900/800MHz)
	FDD: B2/B4/B5/B13/B17/B25/B26 (Optional), B1/B2/B3 /B5/B7/B8/B20/B28 (Optional)
	LTE TDD: B38/B39/B40/B41
	HSPA+/HSUPA/HSDPA/WCDMA/UMTS 2100/1900/900/850MHz
	EDGE/GPRS/GSM 1900/1800/900/850MHz
Bandwidth	LTE(DL:150Mbps,UL:50Mbps)
	HSPA+: 21Mbps(Download speed) 5.76Mbps(Upload speed)
	HSUPA:5.76Mbps(Upload speed)
	HSDPA:7.2Mbps(Download speed)
	UMTS:384Kbps (DL/UL)
	CDMA2000 1X EVDO: 3.1Mbps(DL)/1.8Mbps(UL)
	EDGE: 236.8Kbps(DL/UL)
	GPRS: 85.6Kbps
TX power	<23dBm
RX sensitivity	<-93.3dBm

Hardware System

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

DDR2	128MB(Extendable to 256MB)

Interface type

Item	Content
Ethernet	1 10/100 Mbps Ethernet port(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, mark) (optional) Baud rate: 2400~115200 bps
Indicator	"PWR", "SYS", "SIM", "Online", "ETH", "Signal Strength"
Antenna	Cellular: 2 Standard SMA female 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 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 5~36V

Power consumption

Working state	Power consumption
Standby	103～115mA@12VDC
Working	278～305mA@12VDC
Timing shutdown	3.15~3.70mA@12DVC

Physical Characteristics

Item	Content
Housing	Iron, providing IP30 protection
Dimensions	100x97x25 mm
Weight	320g

Environmental Limits

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

Selection and Ordering Data

SRX-420 Series GPRS/3G/4G Cellular Router 1 x LAN, 1 x RS232/RS485

Model No.	Description
SRX-420-L	4G LTE FDD Router
SRX-420-LT	4G LTE TDD Router
SRX-420-H	3G HSPA+/HSUPA/WCDMA/UMTS Router
SRX-420-EV	CDMA2000 EVDO Router
SRX-420-E	EDGE Router
SRX-420-G	GSM/GPRS Router