Technical specification SR520 Dual network port dual SIM 4G router





VERSION NUMBER: V1.0

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Product Overview

StarRouter520 LTE ROUTER(SR520 for short) series products, is a 4G network, virtual private network and other technologies in one of the Internet of Things wireless router products. The device relies on 4G wireless wide area network and Wi-Fi wireless local area network and other technologies to provide uninterrupted access to a variety of networks, with its comprehensive security and wireless service features, to provide users with high-speed and stable data transmission channels.

Product Features

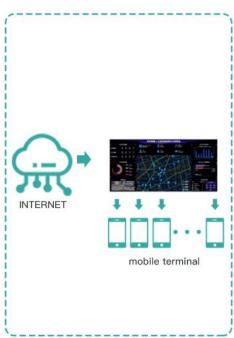
- WLAN support (Optional)
- Supports two Ethernet ports
- Support guide rail and desktop installation
- Supports dual carrier network backup (dual SIM cards) and is compatible with ESIM cards
- Supports wired and wireless mutual backup
- Supports efficient deployment of large-scale device networks
- Fully industrial design, not afraid of the challenge of harsh conditions
- Support 4G LTE CAT4 high-speed network, optional power 1.8GHz private network
- Supports the Linux OpenWrt system, which facilitates secondary development and provides a complete secondary development guide
- Supports multiple VPN functions. PPTP, L2TP, IPSEC, OPENVPN, GRE, GRETAP, Vxlan,
 etc
- Support SNMP and KEY-IOT Device Manager "Cloud Device Management" platform,
 to achieve efficient remote centralized network management





Topological Diagram





Technical Parameters

Hardware Performance	
Memory	64MB
FLASH	16MB (Expandable to 32MB)
WIFI (optional)	2.4G supports 802.11b/g/n, maximum rate 150Mbps
Network Support	Industrial-grade 4G module, supports seven mode full network
System Time	NTP technology for time synchronization, with built-in RTC
Interfaces	
WAN Port	LAN1 can be configured as 1 WAN port
LAN Port	2 (10M/100M adaptive MDI/MDIX ports)
SIM Card Interface	2 (drawer type card holder, support 1.8V/3V SIM/UIM card), compatible with ESIM
Reset	1 (reset button)
Antenna Interface	1 (3G/4G antenna, impedance 50 OHM, SMA cathode port)
	1 (2.4G antenna, impedance 50 OHM, SMA internal port interface, can be
	reused as 4G antenna)
DC Power	1 (DC power base 2.1mm inner core)



Power Terminal 1 (2-pin 3.81mm pitch connecting seat) Console 1 (5-pin 3.5mm pitch connector, 1 channel RS232/1 channel RS485) 10 Power indicators and status indicators (Power, System, LAN1, LAN2, Indicators SIM, Online, WIFI, Signal) **Power Characteristics** External Power Adapter (12V 1A) Power **Operating Voltage** Wide power input DC 5~36V (extensible 5-60V) Standby Power Consumption 100~150mA@12V DC **Operating Power Consumption** 150~220mA@12V DC **Working Conditions Operating Temperature** -35~+75°C (-31~+167°F) **Storage Temperature** -40~+85°C (-40~+185°F) Operating Humidity 5%~95% (non-condensing) **Device Ventilation** Natural heat dissipation, no noise Physical Characteristics Enclosure All-metal enclosure Dimensions Length * Width * Height: 100*100*23mm (not including antenna mounting parts) **Installation Methods** Table flat, rail mounted, wall mounted Net weight: 0.30KG (excluding antenna and installation components) Weight Gross weight: 0.60KG (with accessories and packaging box) Device Safety and Reliability Power inverter protection, overvoltage protection, overcurrent protection; Safety and Reliability Ethernet interface built-in 1.5KV electromagnetic isolation protection; RS232/RS485 interface built-in 15KV ESD protection; SIM/UIM card port built-in 15KV ESD protection **IP30** Protection Level Certification Comply with CCC, Rohs **MTBF** ≥100,000 hours Software Features **Network Access** Supports APN VPDN **Access Authentication** Supports CHAP/PAP authentication Network Mode GSM/GPRS/EDGE,LIMTS/HSPA+/EVDO/TD-SCDMA/TD-LTE/FDD LTE LAN Protocol Supports ARP and Ethernet WAN Protocol Supports static IP, DHCP, PPPoE, and PPP Support Ping、Trace、DHCP Server、DHCP Relay、DHCP Client、DNS **IP** Application



IP Routing

NAT Function





Supports network address translation

relay, DDNS, Telnet

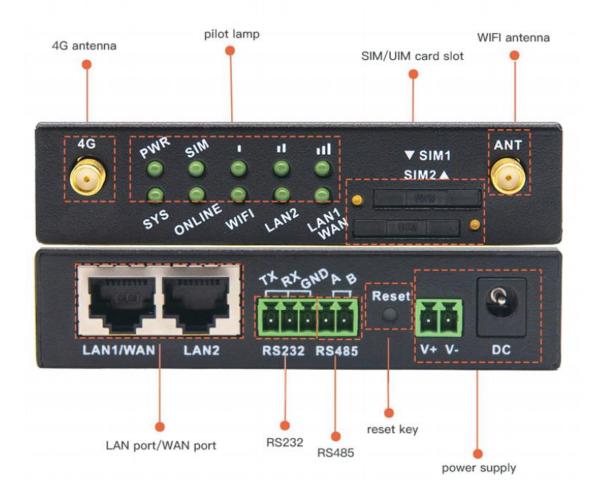
Supports routing

Firewall	Full-state packet inspection (SPI), prevent denial of service (DoS) attacks,
	filter multicast Ping packets, access control lists, URL filtering, port
	mapping, virtual IP mapping, IP-MAC binding
Data Security	IPsec VPN/L2TP/PPTP/GRE/GRE TAP /OPEN VPN/VXLAN/CA certificate
Reliability	
Backup Function	Support link backup
Online Link Detection	Send heartbeat packet detection, disconnection automatic connection
Built-in Watchdog	Device self-checking technology, device fault self-repair
WLAN (optional)	
Protocol Standard	IEEE 802.11b/g/n
Rate	Supports 150Mbps
Safety Features	Open system, shared key, WPA/WPA2 authentication, WEP/TKIP/AES encryption
Working Modes	Working modes of AP and Client
Transmission Distance	100m(The actual transmission distance depends on the environment)
Intelligent Features	
	Support TCP, UDP transparent transmission mode, TCP Server mode,
Integrated DTU Function	support Modbus RTU to Modbus TCP bridge, support DCUDP, DCTCP
	mode
Network Management	
QOS Management	Supports bandwidth limiting and IP limiting
Configuration Mode	Supports telnet, web, ssh, and console configurations
Upgrade Mode	Supports web upgrade and FOTA upgrade
Logging Functionality	Supports local system logs, remote logs, and serial port output logs
Network Management Function	Support KEY-IOT Device Manager "Cloud Device Management" platform,
Cincola Nativada Managanant	batch management
Simple Network Management Functionality	Supports SNMP v1, v2, and v3, and SNMP TRAP
Traffic Management	Supports traffic threshold setting, traffic statistics, and traffic alarm functions
Maintenance Tools	Ping, Route tracing
Status Inquiry	System status, modem status, network connection status, route status





Product Interfaces







Product Dimensions

