XM550

Industrial Dual SIM Card 4G LTE Router

XM550 is an IoT Dual SIM Card Industrial 4G LTE Router. It provides a super-fast, excellent and reliable network by using 4G (TDD- LTE/FDD-LTE), 3G (WCDMA/HSUPA/HSPA+, EV-DO) and other broadband networks.

This device is equipped with a high-performance and advanced Industrial-grade 32-bits communication processor, Dual SIM Slot, 5 Ethernet ports, a dedicated serial port(RS232/RS485), a Wi-Fi interface, embedded LEDE Linux Operating System. It adopts an embedded real-time operating system as the software support platform to provide users with safe, high-speed, stable and excellent 3G/4G wireless networks.

This device is been widely use in a video conference, finance system, outdoor live broadcasting, exhibition show, postal services, smart grid, intelligent transportation, environmental protection monitoring, fire control, security monitoring, water monitoring, public safety, advertising, industrial control, earthquake monitoring, weather monitoring, instrument monitoring and other industrial application scenarios.

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SAILSKY

XM550

Industrial 4G LTE Router

Product Features

※ Support Full 4G LTE network, backward compatible with 3G/2G network
※ Supports 1 WAN + 4 LAN and provides standard RS-232/RS-485 serial port
※ Support IEEE802.11b/g/n WIFI Protocol
※ Support Failover, Backup, bonding and Load balance between Dual SIM and WAN
※ Support Dual SIM card signal bonding enhance network connection, as multiple link data communication
※ Support hardware WDT, provide an anti-drop mechanism to ensure data terminals are always online
※ Support multiple VPN protocols PPTP, L2TR IPSec, OPENVPN, N2N, GRE
※ Support SNMP management protocol
※ Support WI-FI mandatory advertising push function
※ Support DHCP, DDNS, Firewall, NAT, and DMZ host
※ Support network protocols ICMP, TCP, UDP, Telnet, FTP, HTTP, HTTPS, etc.
※ Support Push-type SIM/UIM card design
※ Support Hardware and Software WDT and multi-link detection make it self-recovery from unexpected failure and guarantee reliable communication
※ Support ESD protection, avoid Static Electricity Shock
※ Support LED indicators to display the status of Wireless network signal
※ Support scheduled reboot

Network Characteristics

※ Support Port flux detection
※ Support Link real-time monitoring
※ Support APN and VPDN private network access
※ Support Serial port offer Data Transfer Unit(DUT) function and support Modbus protocol
※ Support multi online trigger ways, including ring, SMS, or data trigger
※ Support QOS, UPnP protocol
※ Support Port forwarding
※ Support UDP broadcast relay

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Extensions

※ Support WAN port, wired and wireless mutual backup (Optional)
※ Support GPS / Beidou positioning [optional]
※ Support storage extension, 2GB-64GB [optional]

Industrial-Grade design

※ Support High-performance industrial-grade wireless modules
※ Support High-performance industrial-grade 32-bit processor
※ Support low power modes, including sleep scheduled online/offline mode
※ Support Metal housing, excellent heat dissipation
※ Support Power supply: +7.5V~32V DC (Maximum 36V)
※ Support Protection level: IP41 (Max IP51)
※ Support Desktop or Wall mount

Physical Hardware

Model	XM550
Chipset	Qualcomm QCA9531
Standard	IEEE802.11b/g/n
Bandwidth	300Mbps
Memory	128Mb
Flash	512Mb
CPU	560MHz
Power	DC 12V/1A
Working Temperature	-40 to 70°C
Storage Temperature	-40 to 85°C
Relative humidity	< 95% non-condensing
Shell	Sheet Metal
Dimensions	153×104×25.5mm
Weight	425g

Wireless parameters

Wireless Module	Industrial Grade Wireless Module
Frequency Band	FDD-LTE:B1/3/7/8/20/28 TDD-LTE:B38/39/40/41 WCDMA:850/900/1900/2100MHz **(Default band) Customized band is available**
Theoretical Bandwidth	FDD/TDD LTE:50/150Mbps |HSPA+:5.76/21Mbps |EVDO：1.8/3.1Mbps
Transmit Power	<24dBm
Receiving Sensitivity	<-109dBm
Security Encryption	Support WEP, WPA, WPA2 and other encryption methods, WPS function is optiona

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WiFi Standard	IEEE802.11b/g/n, Max up to 150Mbps
Receiving Sensitivity	<-72dBm@54Mpbs
Security Encryption	Support WEP, WPA, WPA2, Optional WPS function
Transmit Power	16-17dBm（11g）， 18-20dBm（11b）15dBm (11n)

Interface

LAN	4xEthernet interface (RJ45 socket), Auto MDI/MDIX ,Build-in ESD
WAN	1xEthernet interface(RJ45), Auto MDI/MDIX, built-in ESD, WAN can be converted to LAN
Serial Port	1xRS485/RS232 serial port, suitable for the acquisition device with its own RS485/232 port
Antenna interface	4 standard SMA antenna interfaces (2 x 4G, AUX/GPS and WIFI), characteristic impedance 50QSMA
SIM/UIM	2xSIM/UIM card mounting plate to protect falling. 1.8V/3V automatic detection
Power Input	7.5V-32V(standard DC12V/1A), built-in power transient overvoltage protection
Reset Button	Reset configuration parameter to default values

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