MAXVU MX-R520 series Router is an M2M/IoT mobile broadband router which can optional work on the 4G or 3G cellular network to provide reliable, high speed and secure and wireless connectivity with VPN supported. It is powerful and programmable industrial mobile router with high performance and harden casing design for remote management, telemetry, condition monitoring, CCTV, ATMs, vending machine and other M2M applications.

R520 4G router is an ideal wireless data transmission device for applications that transmit large data load because of ultimately fast transfer speed in 4G network reaching up to 150M download and up to 50M upload. VPN features also can be configured in MAXVU router, allowing you to utilize virtual private network service through a 4G/3G wireless router and built for stresses and workload of a modern industrial or commercial environment.

With dual SIM optional, MX-R520 series router could backup network between the two SIM cards to ensure continuous connection. The router also option with GPS capability, enable it ideal for fleet tracking or access management.

The standard PoE 802.3.af technology can be customized to add on R520. With PoE technology, R520 can delivers electrical power to PoE-enabled devices using a CATx network cable.

Basic Features

- Industrial robust design and compact metal housing
- High data speed via FDD-LTE 4G network, 3G, 2.5G backward compatible
- Strong electromagnetic interference Resistance, heat endurance and radiation ability
- Ultra security, VPN: PPTP, L2TP, GRE, IPSec, and OpenVPN
- ModBus TCP
- Built-in watch dog, Multi-link detection
- 802.11b/g/n Wi-Fi support, 150Mbps data rate
- MIMO Antenna for 4G
- 5xLAN or 4xLAN, 1xWAN
- WAN port support PPPoE, static IP, DHCP client.
- Always online, reboot automatically if disconnected to ensure continual connection
- Support APN and VPDN wireless private network access in
- LCP/ICMP/flow/heartbeat check, ensure network usability

- Web/CLI/SSH/Management platform support, easy configure
- SNMP network management, NTP support
- Local & remote management (configuration, status, upgrade firmware)
- Supports DHCP Server
- Supports DNS proxy and Dynamic DNS (DDNS)
- Supports timing operation
- Supports LED status indication
- Shock and vibration resistant

Advanced Features

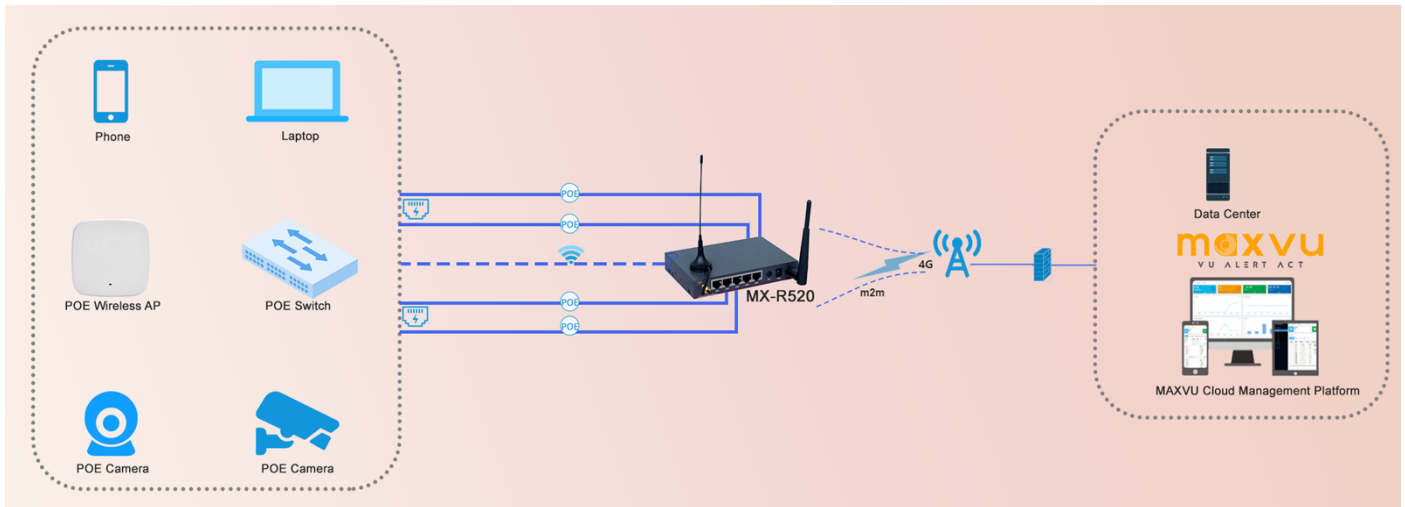- GPS capability optional for fleet management or other tracking application
- Serial to IP communication function optional
- Dual SIM optional available for failover and backup between two network
- Dual SIM Dual Modem option available for fast switch between two network.
- Captive Portal for WiFi hotspot optional
- OpenVPN
- PPTP Sever optional
- Schedule reboot
- Customized acceptable
- PoE 802.3af/at can be customizable (Four ports power supply output, 60W)
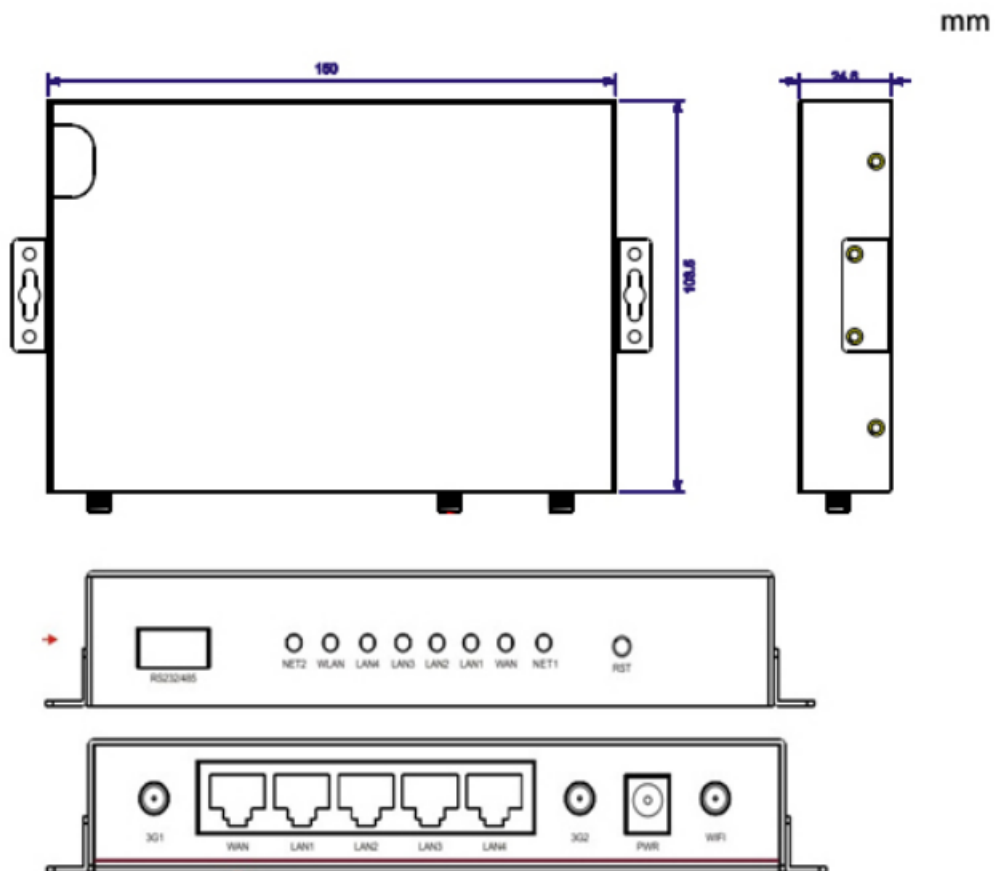
Typical Application

Energy	Digital Oil Field, Smart Mining, Solar, Smart Grid, Transformer Monitoring, Connectivity for EV Charge Station, Wind Power
Retail	ATM, POS(Point-of-Sale), Self-service Kiosk, Vending Machine, Lottery Machine, Branch network, Digital Signage, Video Surveillance, failover between WAN&4G/3G
Industry	Remote Telemetry, Tanking Monitoring, Automation, Remote PLC, Remote AMR, Smart Irrigation, Urban Heat supply system, Geological Disaster Monitoring System, Smart Ware house, Smart Factory
Smart City	Traffic, Street lighting, Public Safety &Security, 5G/4G Public hotspot, Environment monitoring, Video Surveillance, Smart Package Locker, Utilities, Wastewater Treatment, Smart Trash Can, Remote contro
Healthcare	Mobile Medical Equipment Remote Monitoring, Telemedicine
Transportation	Bus WiFi, WiFi on Board, Vehicle video surveillance, Fleet tracking and management, Bus Advertising, Cold Chain Logistic, Highway Monitoring

Typical Application

Product Structure

Specfication	
Optional Supports Mobile Network	FDD-LTE / TDD-LTE DC-HSPA+/HSPA+/HSPA/HSDPA/WCDMA/UMTS EDGE/GPRS CDMA2000 EVDO/CDMA 1X
Ethernet Standard	IEEE 802.3 IEEE 802.3u
Interface	5× 10/100Mb LAN (4XLAN, 1xWAN configurable) 1× RS-232 1(2)× SMA-K, 1(2)x SMA-RP antenna connectors 1× Standard SIM/R-UIM Slot (Dual SIM optional) 1× power connector
LED instruction	NET WLAN WAN LAN (LAN1~LAN4)
Route protocol	Static route RIPv2/OSPF dynamic route
Power supply	7.5 - 32VDC
Device Management	Local or remote web browser (IE v8 or above) CLI/Telnet command M2M management platform (optional) SSH configure (optional)
WiFi	Standard: IEEE 802.11b/g/n WEP, WPA and WPA2 encryption Standard 150Mbps, 300Mbps optional AP, Client, station, bridge mode support
Firewall & Filter	IP packet/Domain/MAC filter NAT DMZ
VPN	IPSec PPTP/L2TP client OpenVPN GRE/IPIP
Power Consumption	Idle: 180mA@+12VDC Single Module Communications: 210mA@+12VDC Dual Module Communications: 600mA@+12VDC
PoE	Customizable (Not default) Standard PoE 802.3af/at 4x PoE 100M LAN

	60W
Other	Dimension: 176mm x 105mm x 25mm (not including antenna)
	Weight: 350g
	Operation temperature: -30~+70 degree
	Store temperature: -40~+85 degree
	Relative Humidity: <95% (non-condensing)
	Guarantee: two year
Approval	CE
	FCC
	RoHS
	CCC
Compliance	EN 300 328 v 2.1.1 (2016-11)
	EN 301 489-52, EN 301 489-17, EN 301 489-1
	EN 301 908-1, EN 301 908-2, EN 301 908-13,
	EN 55023:2015
	EN 60950-1,
	EN 55024:2010
	EN 61000-3-2: 2014
	EN 61000-3-3:2013
	EN 62311:2008

Part NO.	Cellular	Interface	DL/UL	Dual/Single SIM	WIFI	GPS
MX-R520LA-dw-p		1x WAN 4x LAN(POE)		Dual	Yes	NO
MX-R520LA	LTE-FDD: B1/B3/B5/B7/B8/B20/B28		150/50Mbps	Single	NO	NO
MX-R520LA-w	LTE-TDD: B38/B40/41	1xWAN 4xLAN		Single	Yes	NO
MX-R520LA-dw	3G: B1/B5/B8			Dual	Yes	NO
MX-R520LA-dwg				Dual	Yes	Yes