M.gear

MVI5261

5G Sub-6 IP67 Ruggedized Gateway

Key Features

- Qualcomm SDX62+IPQ Series chip solution
- 5G NR and LTE-A UL Cat18, DL Cat 19
- Support both SA and NSA
- Global bands supported
- Ruggedized and anti-vibration design
- Support 2.4GHz/5GHz dual band and IEEE802.11 b/g/n/ac/ax Wi-Fi
- Web, TR069 and MQTT device management
- Support 3GE LAN WAN/LAN1, LAN2-3, CAN1/CAN2/RS232 and diverse industry interfaces
- IP67 rating for outdoor environment

5G Industrial Gateway

MVI5261 Ruggedized Gateway supports various 4G/5G spectrums and ultra high speed in a ruggedized form factor. This product offers industrial-grade environmental qualifications while providing high speed data services for the bandwidth-intensive applications. Up to IP67 with water-proof, shock-resistant, and lightning-proof, combined to ensure the quality of wireless communication under different outdoor environments.

The MVI5261 also supports a variety of industrial interfaces, include serial port, CAN ports, to meet the business needs of different industrial scenarios.

Manufacturing

Grid

Transportation

Port

WHA YU INDUSTRIAL CO., LTD.
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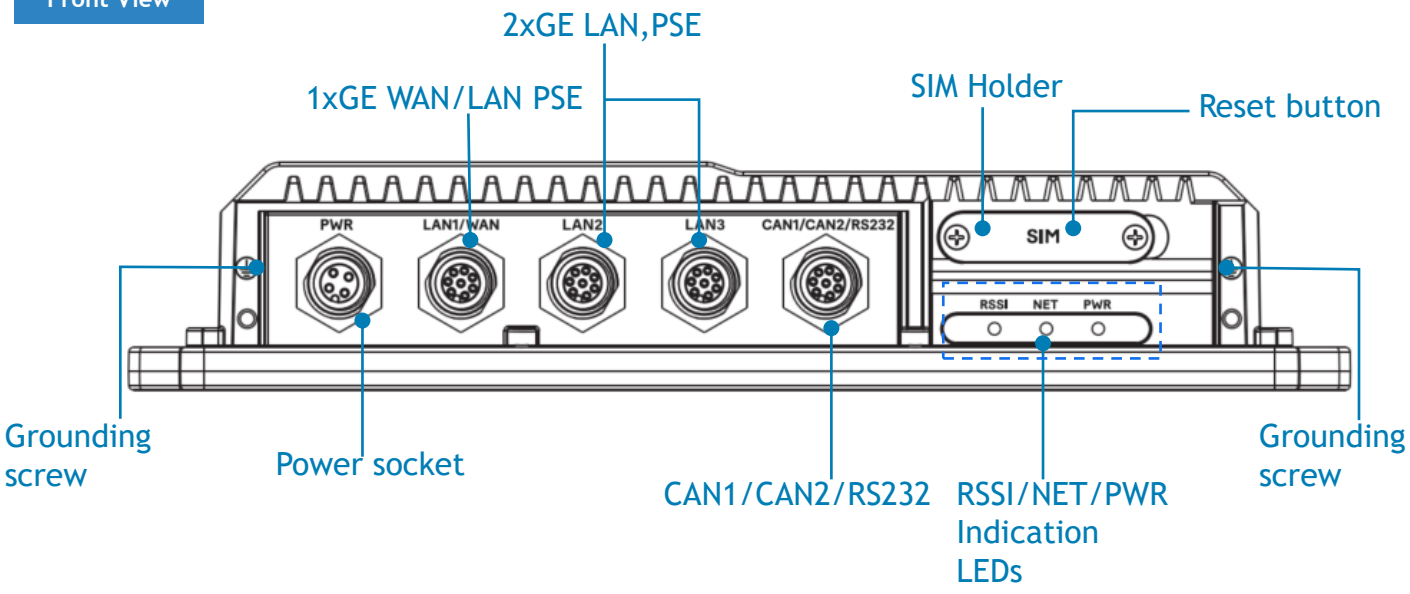
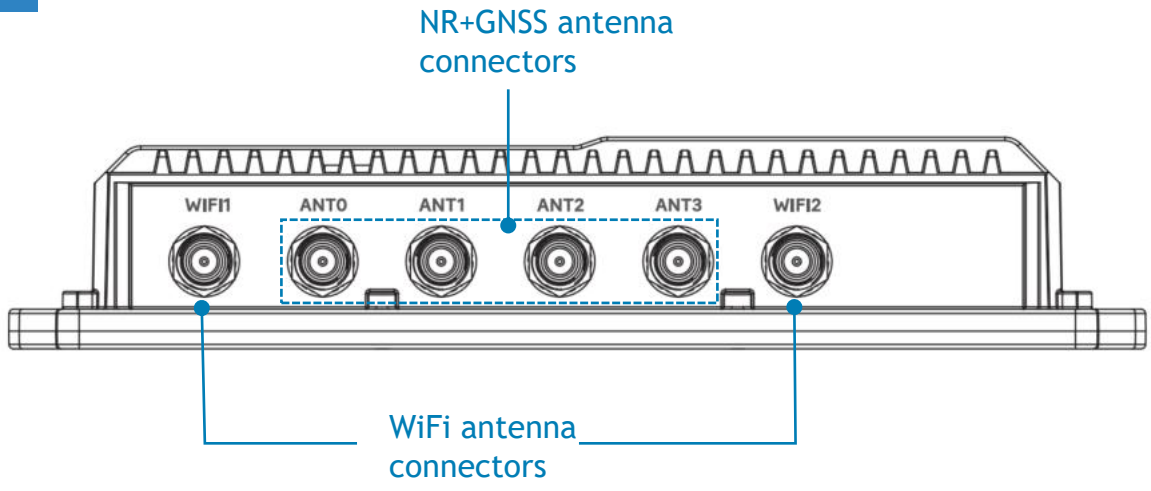
Hardware Specifications

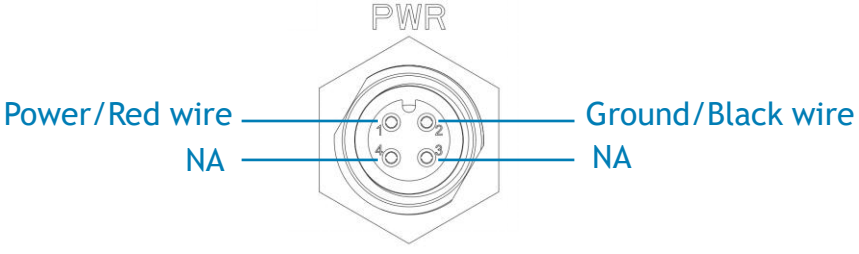
Front View



Back View



Power Pinout



Hardware Specifications

Chipset	Qualcomm IPQ6010	
Module	Quectel RM520N-GL	
Network mode	Support SA/NSA	
Category	3GPP Rel-16, LTE Category:DL Cat 19/ UL Cat 18	
Cellular Bands	**5G NR**	n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79
	LTE	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B46(LAA)/B48
	WCDMA	B1/B2/B4/B5/B8/B19
Maximum transmit throughput (theoretical value)	**Downlink**	5G NR SA: 2.4Gbps 5G NR NSA: 3.4Gbps
	Uplink	5G NR SA: 900Mbps 5G NR NSA: 550Mbps
GNSS	Passive detection: GPS/GLONASS/BDS/Galileo	
Wi-Fi	Support 2.4GHz/5GHz dual band and IEEE802.11 b/g/n/ac/ax Wi-Fi	
External port	1 x M12 for Power supply 1 x M12 for 1GE port WAN/LAN1 2 x M12 for 10/100/1000Mbps compatible GE port,LAN2/LAN3 1 x M12 for CAN1/CAN2/RS232Ports 2 x Nano SIM Slot (4FF, Dual SIM Single Active)	
Antenna port	4 x TNC connector for NR&LTE&GNSS antennas 2 x TNC connector for 2.4&5GHz Wi-Fi antennas	
LED Indicators	1 x Power indicator 1 x Network status indicator 1 x RSSI indicator	
Button	1 x Reboot or Restore Button	
MIMO	UL 2x2 MIMO on n38/n41/n77/n78/n79 DL 4x4 MIMO on n1/n2/n3/n7/n25/n30/n66/n38/n40/n41/n48/n70/n77/n78/n79 and B1/B2/B3/B4/B7/B25/B30/B38/B40/B41/B42/B43/B48/B66 Wi-Fi 2x2 MIMO	
ENDC	Support	
Power supply	DC 12~36V	
Power consumption	<24W	
Dimensions	259 x 178 x 48 (mm)	
Weight	≈2KG	
Humidity	Operation humidity: 5% - 95% (non-condensing) Storage humidity: 5% - 95% (non-condensing)	
Temperature	Working temperature: -40°C to 70°C Storage temperature: -40°C to 85°C	

Software Specifications

Data Services	Multi APN (up to 4 APNs)	
	IPV4/IPV6 compliance	
LAN	DHCPV4/DHCPV6 server/client	
	DNS and DNS proxy	
	DMZ	
	UPNP	
	ALG (optional)	
	MAC address Filtering	
Management	Version management	Image Checksum
		Active version and backup version
		Rollback mechanism when upgrade fail
	HTTP/FTP Auto Upgrade(FOTA)	
	TR069	Upload/Download the ACS specified file
		Download the configuration file
		Configure & Queries parameters
		Remote upgrade
		Remote debugging operations
		Cycle monitor
	SNMP Trap	
	WebGUI/CLI	Different level of user login priority and different limitation and display
		Encryption backup current settings and restore the backup settings
		Export of current diagnosis results and operation logs
		Statistics of LAN link status, transmit and receive traffic and up time
	Diagnostics	
	USIM PIN management and card authentication	
	USIM activation	
	MQTT management	
WLAN	IEEE 802.11a/b/g/n/ac/ax	
	Maximum rate of up to 1.8 Gbps	
	MU-MIMO	
	Support 20 MHz, 40 MHz, and 80 MHz modes	
	AP isolation	
	Service set identifier (SSID) hiding	
	Guest network	
VPN and Routing	Bridge mode	
	NAT mode	
	Port mirror	
	ARP	
	IPV4/IPV6 dual stack	
	Port forwarding	
	IPsec (Client Mode only)	
	PPTP (Client Mode only)	
	GRE tunnel	
	VXLAN	
	L2TP V2/V3 (Client Mode only)	
	RBUE	
Security	Firewall	
	Mac address filtering	
	IP address filtering	
	Access control	
	HTTPS Login from WAN	
	DoS attack protection	
	Hierarchical user management	

Certification and Environment Compliance

Certification Compliance *(*Available on a customer demand basis)*	CE* FCC* RoHS* REACH* WEEE*
Environment Compliance	Protection rating: EN60529: IP67 Salt mist: IEC68-2-11,72H Shock: IEC60068-2-27/EN50155/EN61373 Free Fall: IEC60068-2-32 (1 meter height with package) Vibration: IEC60068-2-6/ EN50155/EN61373