

NAVIGATEWORX NR310





Intelligent 4G LTE VPN Router, Industrial Design,
Dual SIM Failover, RS232 and RS485 Serial connection

Navigateworx NR310 industrial cellular VPN router enables wireless data connectivity over public and private LTE cellular networks at 4G speeds.

NR310 router has dual SIM backup, 2 Ethernet ports, RS232 and RS485 interfaces are provided to support Serial to IP communication. NR310 router supports 9 to 36 VDC wide range power inputs, designed with reverse-voltage protection mechanism for greater reliability. It is an advanced choice for universal wireless M2M applications with reliable features for data transmission.

TYPICAL APPLICATION



Secure and reliable internet access

- Wireless Mobile Broadband 2G / 3G / 4G Connection
- Connection managers ensure seamless communication
- Support Multiple VPN tunnels for data encryption

Designed for industrial usage

- Power Input Range 9 to 36 VDC
- Industrial design for harsh environment
- Aluminum casing and din-rail installation

Easy to use and easy maintenance

- User friendly web interface for user interaction
- Support Central Management Platform
- Reduce high costs for onsite maintenance



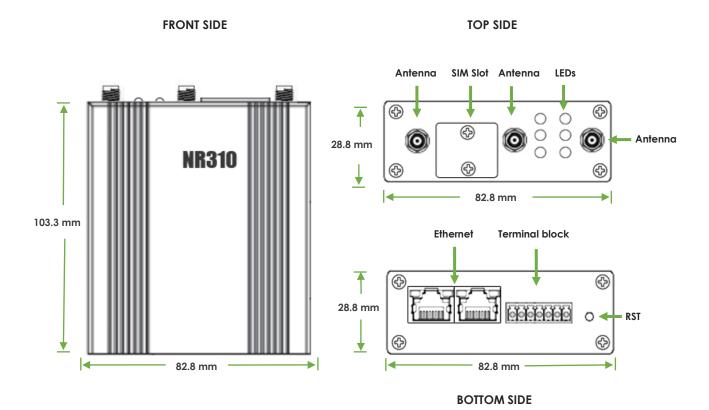
SPECIFICATIONS

CELLULAR			
CLILOLAR	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28/B28A		
	LTE TDD: B40		
Frequency Bands	WCDMA: B1/B2/B5/B8		
	GSM: B2/B3/B5/B8		
	More Bands Demands please contact with us		
SIM	2 x SIM slots, 1.8V / 3V		
SIM Failover	Auto-switch cases: data limited, no network, network denied, data connection fail		
Antennas	2 (MAIN + AUX), SMA female		
ETHERNET			
Number of Ports	1 x WAN + 1 x LAN or 2 x LAN, Auto 10/100 Mbps		
Magnet Isolation Protection	1.5 KV		
Wi-Fi			
Wireless Mode	IEEE 802.11b/g/n, Access Point (AP), Client		
Wireless Speed	150 Mbps		
Wireless Security	WPA, WPA2, WEP, CCMP, TKIP		
Frequency Bands	2.412 - 2.484 GHz (2.4 GHz ISM band)		
Antennas	1 x RP-SMA for Wi-Fi antenna connectors		
SERIAL			
Number of Ports	1 x RS-232 (3 PIN) + 1 x RS-485		
Connector	Terminal block		
ESD Protection	± 15 KV		
Baud Rate	300bps to 115200bps		
POWER			
Connector	2-pin 3.5 mm female socket		
Input Voltage Range	9 to 36 VDC		
Power Consumption	Idle: 100 mA@12 V		
HARDWARE	Data link: 400 mA (peak) @12 V		
Watchdog	Ruilt in watchdog		
LEDs	Built-in watchdog		
Reset Button	SYS, NET, USR, RSSI x 3 Peret/restore to factory default button		
Ingress Protection	Reset/restore to factory default button IP30		
Housing & Weight	Aluminum, 220 g		
Dimensions	103.3 mm x 82.8 mm x 28.8 mm		
Installations	DIN-rail mounting		
Operating Temperature	-40 °C to 75 °C		
Operating Humidity	5% to 95% non-condensing		
NETWORK			
Routing	Static routing		
Network Protocols	TCP, UDP, IPv4, ICMP, NTP, DNS, HTTP, HTTPS, ARP, PPP, PPPoE, DHCP, IP Passthrough, VRRP		
Connection Manager	Ping Detection, Timer Reboot, ICMP for link detection, Call Reboot		
Firewall	Flexible access control of TCP, UDP, ICMP packets, MAC address filter		
DDNS	Supported some service providers, others can be configured manually		
SMS	SMS Configuration, SMS Gateway, SMS Notification		
	and configuration, and calendy, and notification		
VPN			
OpenVPN	OpenVPN server/client mode, client mode supports up to 5 x OpenVPN tunnels		
GRE	Layer2 and Layer3, supports up to 5 x GRE VPN tunnels		
IPsec	IKEv1, IKEv2, supports up to 5 x IPsec VPN tunnels		



MONITORING & MANAGEMENT			
Web GUI	HTTP/HTTPS, firmware upgrade		
Command Line Interface	SSHv2 and TELNET		
Management platform	Central Management Platform		
APP CENTER			
Apps	VPN: L2TP, PPTP, DMVPN Network: Dynamic Routing (RIPv1/v2, OSPF, BGP), Email Notification, Enforce Modem PPP, OoS Management: AT over IP, AT over COM, AT over Telnet, SNMPv1/v2/v3/, TR069, DMPC Protocol Converter: Modbus Master, Modbus Slave, Modbus ID Mapping, Modbus Gateway IEC101-104, DLMS to IEC104, Modbus to DNP3 More Apps Demands please contact with us		
APPROVAL			
EMI	EN 55032:2012 Class B		
EMS	IEC 61000-4-2 ESD	Level 4	
	IEC 61000-4-3 RS	Level 3	
	IEC 61000-4-4 EFT	Level 3	
	IEC 61000-4-5 Surge	Level 3	
	IEC 61000-4-6 CS	Level 3	
	IEC 61000-4-12	Level 3	
Vibration	EN50155		

DIMENSIONS





ORDERING INFORMATION

MODEL	PART NUMBER	DESCRIPTION		
NR310-4G	A312430	4G LTE, Dual SIMs, 2 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 9 - 36VDC, 2.4GHz Wi-Fi		
OPTIONAL ACCESSORIES				
Power Supply	F001009	Power Supply Adapter, EU Plug, Input 100 to 240VAC, Output 12V DC 1.5A		
	F001011	Power Supply Adapter, AU Plug, Input 100 to 240VAC, Output 12V DC 1.5A		
	F001012	Power Supply Adapter, US Plug, Input 100 to 240VAC, Output 12V DC 1.5A		
	F001013	Power Supply Adapter, UK Plug, Input 100 to 240VAC, Output 12V DC 1.5A		
LTE Rubber Antenna	F001006	4G / 3G / 2G Rubber Antenna, 698-960 / 1710-2170 / 2500- 2700 MHz, 2dbi, Ф8×108mm, AC		
LTE Magnet Antenna	F001007	4G / 3G / 2G Magnet Antenna, 3 Meters Long, 698-960 / 1710- 2700 MHz, 3dbi, Φ 29×112mm, AC		
Wi-Fi Rubber Antenna	F001004	Wi-Fi Rubber Antenna, 2.4G-2.483G, 5dbi, Φ 13×197mm, AC		
Wi-Fi Magnet Antenna	F001005	Wi-Fi Magnet Antenna, 3 Meters, 2.4G - 2.483G, 7dbi, Φ 29×220mm, AC		
Din-Rail	F004001	Din Rail Kit, 35 mm, Aluminum with Black Spray Surface, 50 * 40 * 8.5 mm, 3 * M3.5 Screw Holes		

ABOUT NAVIGATEWORX

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