

NAVIGATEWORX NR300

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



NR300 router has dual SIM backup, 1 LAN ports, RS232 and RS485 interfaces are provided to support Serial to IP communication. NR300 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 manager 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

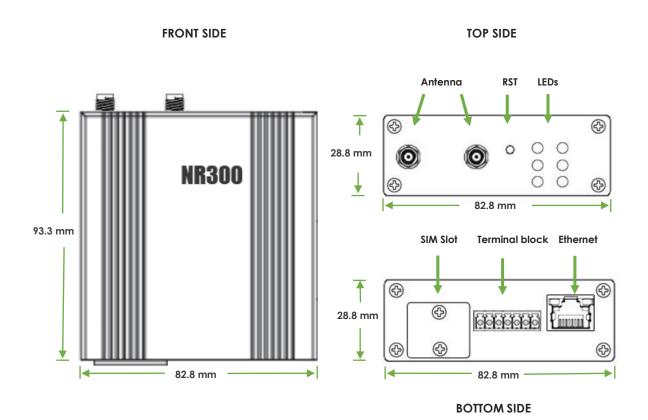
CELLULAR			
Frequency Bands	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28/B28A LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8 More Bands Demands please contact with us		
SIM	2 x SIM slots, 1.8V / 3V		
SIM Failover	Auto-switch cases: data limited, no network, network denied, data connection fail		
Antennas	2 (MAIN + AUX), SMA female		
ETHERNET			
Number of Ports	1 x LAN, Auto 10/100 Mbps		
Magnet Isolation Protection	1.5 KV		
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: 50 mA@12 V Data link: 200 mA (peak) @12 V		
HARDWARE			
Watchdog	Built-in watchdog		
LEDs	SYS, NET, USR, RSSI x 3		
Reset Button	Reset/restore to factory default button		
Ingress Protection	IP30		
Housing & Weight	Aluminum, 200 g		
Dimensions	82.8 mm x 93.3 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		
Dynamic Routing (Optional)	RIPv1/v2, OSPF, BGP		
Network Protocols	TCP, UDP, IPv4, ICMP, NTP, DNS, HTTP, HTTPS, ARP, PPP, DHCP, IP Passthrough, VRRP		
Connection Manager	Ping Detection, Timer Reboot, ICMP for link detection		
Firewall	Flexible access control of TCP, UDP, ICMP packets, MAC address filter		
DDNS	Supported some service providers, others can be configured manually		
Modbus Slave (Optional)	Read device status via Modbus protocol		
Modbus Master (Optional)	Able to read specified channels value from external Modbus salve and generate alarm		
SMS	SMS Configuration, SMS Gateway, SMS 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		
DMVPN (Optional)	Dynamic Multipoint Virtual Private Networking DMVPN		
PPTP/L2TP (Optional)	PPTP or Point-to-Point Tunneling Protocol and L2TP or Layer 2 Tunneling Protocol (L2TP)		



MONITORING & MANAGEMENT				
Web GUI	HTTP/HTTPS, firmware upgrade			
Command Line Interface	SSHv2 and TELNET			
Management platform	Central Management Platform			
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		
Vibration	EN50155			

DIMENSIONS



ORDERING INFORMATION

MODEL	PART NUMBER	DESCRIPTION				
NR300-4G	A301430	4G LTE, Dual SIMs, 1 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 9 - 36VDC				
OPTIONAL ACCESSORIES						
	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				
Power Supply	F001012	Power Supply Adapter, US Plug, Input 100 to 240VAC, Output 12V DC 1.5A				
rower supply	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, 2.5dbi, Φ8×108mm, AC				
LTE Magnet Antenna	F001007	Wi-Fi Magnet Antenna, 3 Meters, 2.4G - 2.483G, 5dbi, Φ 29×220mm, AC				
Din-Rail	F004001	Din Rail Kit, 35 mm, Alumunium with Black Spray Surface, 50 * 40 * 8.5 mm, 3 * M3.5 Screw Holes				

ABOUT NAVIGATEWORX

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