



NAVIGATEWORX NR300

Industrial Cellular VPN Router for Energy, Retail, Transportation and Industrial Automation Applications

Navigateworx NR300 industrial cellular VPN router enables wireless data connectivity over public and private LTE cellular networks at 4G speeds.

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.

BENEFITS

Navigateworx NR300 industrial cellular VPN router is ideal connecting to 2G/3G/4G LTE network in critical M2M applications and deployments around the world.

Industrial internet access

- Wireless Mobile Broadband 2G / 3G / 4G Connection
- Remote access to SCADA System for Industrial Automation
- Reduce high costs for on-site maintenance

Designed for industrial usage

- Power Input Range 9 to 36 VDC
- Industrial design for harsh environment
- Aluminum casing

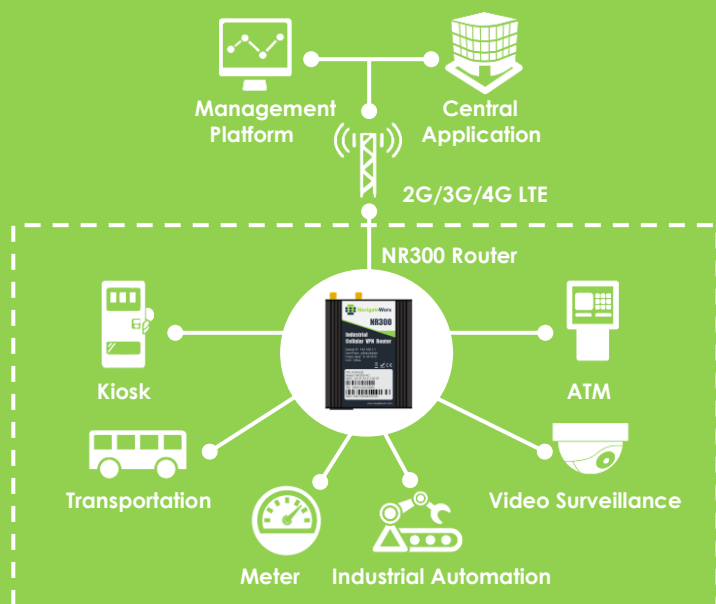
Secure and reliable remote connection

- Connection manager ensure seamless communication
- Support Multiple VPN tunnels for data encryption
- Firewall prevents unsafe and unauthorized access

Easy to use and easy maintenance

- User-friendly web interface for human interaction
- Easy configuration for deployment
- Support Central Management Platform

APPLICATION EXAMPLE

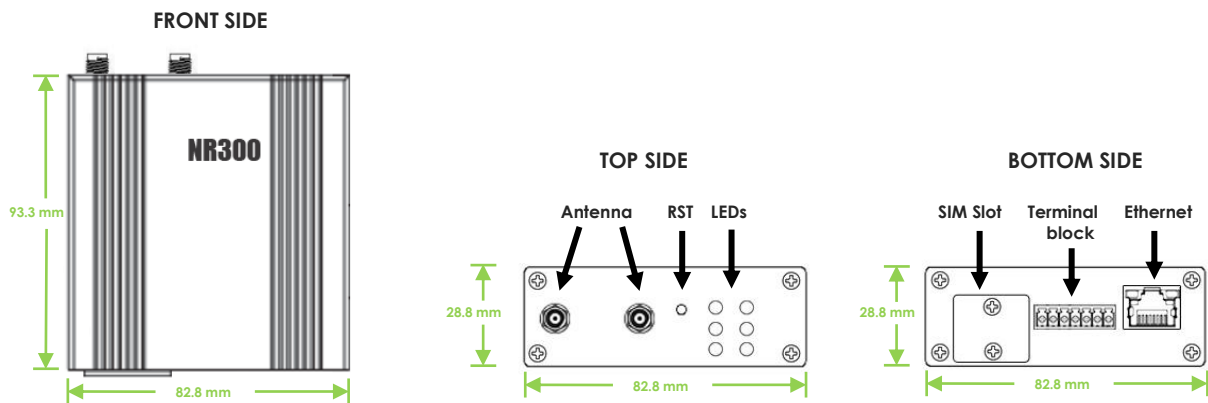


SPECIFICATIONS

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
Auto APN List	Operator APN list
Mobile Quota Control	Set up customized data limits for both SIM cards
SMS	SMS Configuration, SMS Gateway, SMS Notification
Number of Antennas	2 (MAIN + AUX)
Connector	SMA female
ETHERNET	
Number of Ports	1 x LAN
Port Type	Auto 10/100 Mbps, auto MDI/MDIX
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	7-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, PPPoE, DHCP, IP Passthrough
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
VPN	
OpenVPN	OpenVPN client, supports up to 5 x OpenVPN tunnels
GRE	Layer2 and Layer3, supports up to 5 x GRE VPN tunnels
IPsec (Optional)	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



Power Supply



Cellular Rubber Antenna



Cellular Magnet Antenna



Din-Rail

FOR MORE INFORMATION

PLEASE VISIT WWW.NAVIGATEWORX.COM

Navigateworx is always available to serve you with expert technical support and we will continually concentrate on IIoT / M2M Industry and bring more and more reliable, trustable Solution for our clients. That is NavigateWorx.

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