

NAVIGATEWORX NR300



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

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.

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 slave 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) |

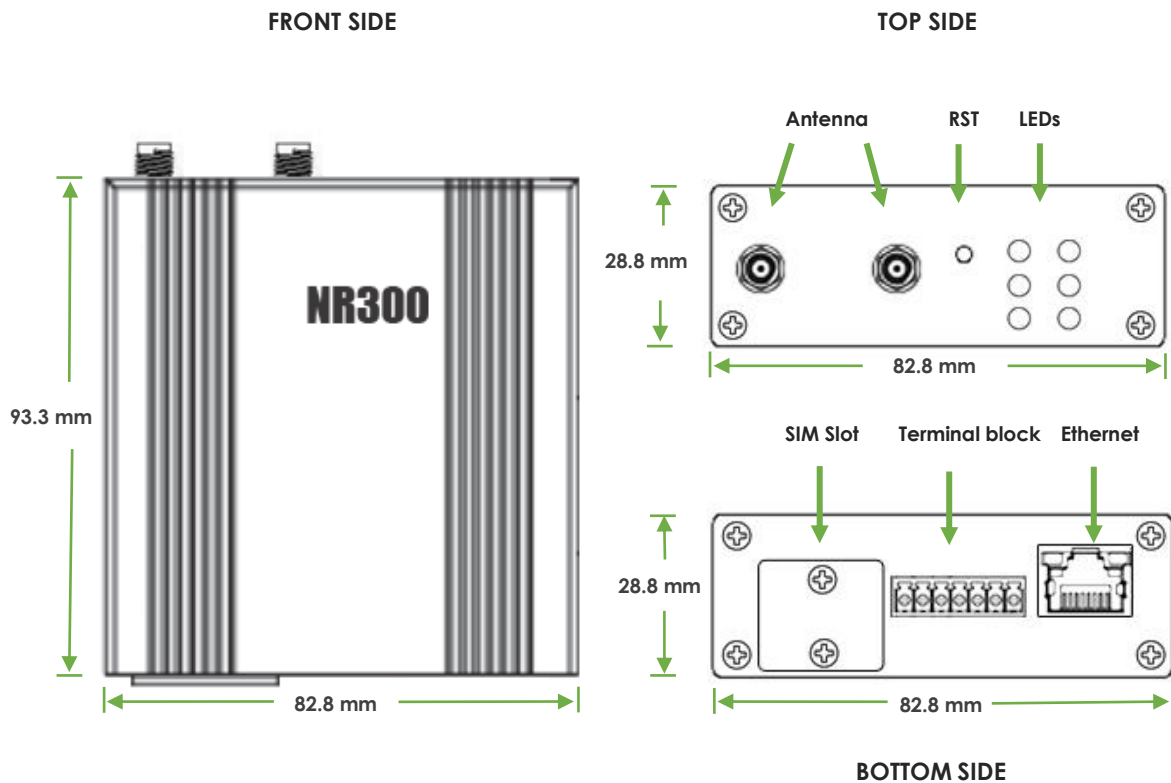
MONITORING & MANAGEMENT

| | | |
|------------------------|------------------------------|--|
| 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 | | |
|  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, 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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