



NAVIGATEWORX NR500 PRO

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

Navigateworx NR500 Pro industrial cellular VPN router enables wireless data connectivity over public and private LTE cellular networks at 4G speeds.

NR500 Pro router has dual SIM backup, 4 LAN ports, RS232 and RS485 interfaces are provided to support Serial to IP communication. NR500 Pro router supports 9 to 48 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 NR500 Pro 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 48 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

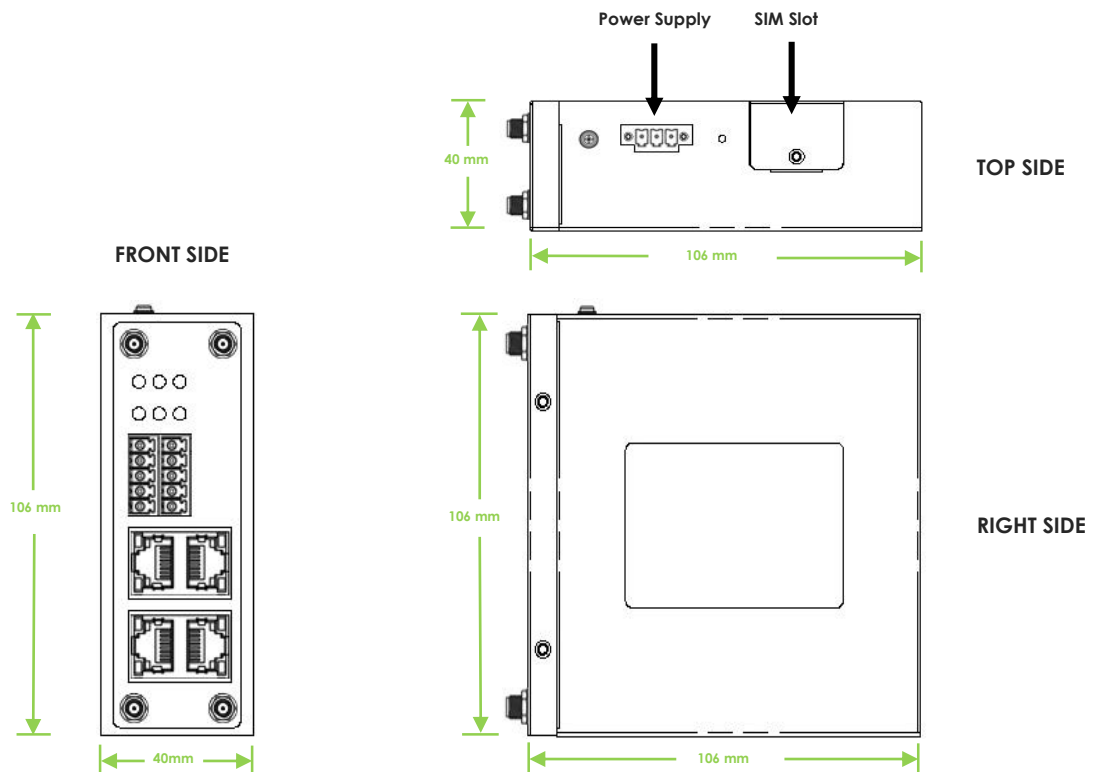


SPECIFICATIONS

CELLULAR	
Frequency Bands	4G(LTE) AU&NZ: B1/B2/B3/B4/B5/B7/B28, B40 EMEA: B1/B3/B5/B7/B8/B20, B38/B40/B41 America: B2/B4/B12/B13 Japan: B1/B3/B8/B18/B19/B26, B41 China: B1/B3/B8, B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8/B19 TD-SCDMA: B34/B39 GSM/EDGE: 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 WAN + 3 x LAN or 4 x LAN
Port Type	Auto 10/100 Mbps, auto MDI/MDIX
Magnet Isolation Protection	1.5 KV
WIFI(Optional)	
Wireless Mode	IEEE 802.11b/g/n, Access Point (AP), Client
Wireless Speed	2*2 MIMO, 300 Mbps
Wireless Security	WPA, WPA2, WEP, CCMP, TKIP
Frequency Bands	2.412 - 2.484 GHz (2.4 GHz ISM band)
Antennas	2 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
DIGITAL INPUT & OUTPUT	
Type	2 x DI + 2 x DO
Connector	Terminal block
Isolation	3KVDC or 2KVrms
Absolute maximum VDC	36VDC
Absolute maximum ADC	100 mA
POWER	
Connector	3-pin 3.5 mm female socket with lock
Input Voltage Range	9 to 48 VDC
Power Consumption	Idle: 100 mA@12 V Data link: 400 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	Metal, 300 g
Dimensions	106mm x 106mm x 40mm
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, 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	
SMS	SMS Configuration, SMS Gateway, SMS Notification	
VPN		
OpenVPN	OpenVPN client, 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
NR500-P4G	A504433	4G LTE, Dual SIMs, 4 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC
	A514433	4G LTE, Dual SIMs, 4 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC, 2.4GHz Wi-Fi
NR500-P3G	A504333	3G, Dual SIMs, 4 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC
	A514333	3G, Dual SIMs, 4 x Eth, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC, 2.4GHz Wi-Fi

OPTIONAL ACCESSORIES



Power Supply



Cellular Rubber Antenna



Cellular Magnet Antenna



Wi-Fi Rubber Antenna



Wi-Fi 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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