

NAVIGATEWORX NR600-P5G

Industrial **5G** VPN Router, Dual SIM Failover, High speed cellular 5G connectivity



Navigateworx NR600-P5G industrial 5G VPN router enables wireless data connectivity over public and private 5G cellular networks.

NR600-P5G router has dual SIM backup, 1 WAN and 3 LAN Ethernet ports, Dual band 2.4GHz and 5.8GHz Wi-Fi access, ports, RS232 and RS485 interfaces are provided to support Serial to IP communication, 2 x digital input and 2 x Digital output for alarm applications. GNSS feature is based on LTE module capability. Supports 9 to 48 VDC wide range power inputs, designed with reverse-voltage protection mechanism. It is an advanced choice for wireless M2M applications with reliable features for data transmission.

TYPICAL APPLICATION



Secure and reliable internet access

- Wireless Mobile Broadband **5G/4G/3G** Connection
- Connection manager ensure seamless communication
- Dual band 2.4GHz and 5.8GHz Wi-Fi access

Designed for industrial usage

- Power Input Range 9 to 48 VDC
- Industrial design for harsh environment
- Aluminum enclosure and wall mounting installation

Easy to use and easy maintenance

- User friendly web interface for user interaction
- Support Central Management Platform



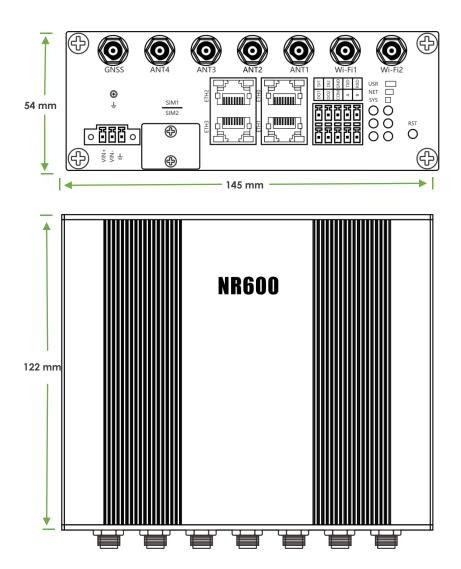
SPECIFICATIONS

CELLULAR			
SELULAR	5G NR NSA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/		
	5G NR SA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79		
	LTE-FDD: B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32		
Frequency Bands	LTE-TDD: B34/B38/B39/B40/B41/B42/B43		
	WCDMA: B1/B3/B5/B6/B8/B19		
	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	4 external antennas, SMA		
ETHERNET			
Number of Ports	1 x WAN + 3 x LAN, Auto 10/100/1000 Mbps		
Magnet Isolation Protection	1.5 KV		
DUAL BAND Wi-Fi			
Wireless Mode	802.11a/b/g/n/ac 2*2 MIMO, supports AP and Client modes		
	5.8G: Up to 867Mbps		
Wireless Speed	2.4G: Up to 300Mbps		
Wireless Security	WPA, WPA2, WEP, CCMP, TKIP		
Frequency Bands	5.15 – 5.825 GHz (5 GHz ISM band) 2.412 - 2.484 GHz (2.4 GHz ISM band)		
Antennas	2 x RP-SMA		
GNSS/GPS			
Features	Gen9C Lite of Qualcomm (GPS, GLONASS, BeiDou, Galileo)		
Protocol	NMEA-0183		
Antennas	1 x SMA female with 50 ohms impedance		
SERIAL			
Number of Ports	1 x RS-232 (3 PIN) + 1 x RS-485		
Connector	Terminal block		
ESD Protection Baud Rate	± 15 KV 300bps to 115200bps		
DIGITAL INPUT & OUTPUT	3000DS 10 113200DDS		
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		
Input Voltage Range	9 to 48 VDC		
Power Consumption	Idle: 300 mA@12 V		
HARDWARE	Data link: 600 mA (peak) @12 V		
Built-in	Watchdog		
LEDs	SYS, NET, USR, RSSI x 3		
Reset Button	Reset/restore to factory default button		
Ingress Protection	IP30		
Housing & Weight	Aluminum, 600g		
Dimensions	145 * 122* 54 mm		
Installations	Din Rail		
Operating Temperature	-30 °C to 70 °C		
	-40 °C to 85 °C		
Extended Temperature	-40 °C to 85 °C		



Routing	Static routing	Static routing			
Network Protocols	TCP, UDP, IPv4, ICMP, NTP, DNS, H	TCP, UDP, IPv4, ICMP, NTP, DNS, HTTP, HTTPS, ARP, PPP, PPPoE, DHCP, IP Passthrough, VRRP			
Connection Manager	Ping Detection, Timer Reboot, ICA	Ping Detection, Timer Reboot, ICMP for link detection			
Firewall	Flexible access control of TCP, UD	Flexible access control of TCP, UDP, ICMP packets, MAC address filter			
DDNS	Supported some service provider	Supported some service providers, others can be configured manually			
SMS	SMS Configuration, SMS Gateway	SMS Configuration, SMS Gateway, SMS Notification			
VPN					
OpenVPN	OpenVPN server/client mode, client	OpenVPN server/client mode, client mode supports up to 5 x OpenVPN tunnels			
GRE	Layer2 and Layer3, supports up to	Layer2 and Layer3, supports up to 5 x GRE VPN tunnels			
IPsec	IKEv1, IKEv2, supports up to 5 x IPs	IKEv1, IKEv2, supports up to 5 x IPsec VPN tunnels			
MONITORING & MAN	AGEMENT				
Web GUI	HTTP/HTTPS, firmware upgrade	HTTP/HTTPS, firmware upgrade			
Command Line Interface	SSHv2 and TELNET	SSHv2 and TELNET			
Management platform	Central Management Platform	Central Management Platform			
APP CENTER					
APPs	Management: AT over IP, AT over Protocol Converter: Modbus Mast IEC101-104, DLMS to IEC104, Mod	VPN: L2TP, PPTP, DMVPN Network: Dynamic Routing (RIPv1/v2, OSPF, BGP), Email Notification, Enforce Modem PPP, Qo 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	EN 55032:2012 Class B			
EMS	IEC 61000-4-2 ESD	Level 3			
	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	EN50155			

DIMENSIONS





ORDERING INFORMATION

MODEL	PART NUMBER	DESCRIPTION			
NR600-P5G	A634833	5G, Dual SIMs, 4 x Gigabit Port, Dual band 2.4GHz and 5.8GHz Wi-Fi, 1 x RS232 (3 PIN), 1 x RS485, 2 x DI, 2 x DO, 9 - 48VDC, aGPS			
	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			
5G Rubber Antenna	F001025	5G Rubber Antenna, 698-960/1710-3500MHz,2.15dbi, Φ13×172mm			
5G Magnet Antenna	F001026	5G Magnet Antenna, 698-960/1710-3500MHz, 3dbi, 3 Meters Long, Φ29×290mm			
Wi-Fi Rubber Antenna	F001060	2.4G/5.8G Rubber Antennas, 2.4G/5.8GHz,5dbi,φ13x200mm			
Wi-Fi Magnet Antenna	F001061	2.4G/5.8G Magnet Antenna, 2.4G/5.8GHz, 2.5/3dbi, 3 Meters Long , φ30×90mm, AC			
GPS Antenna	F001015	GPS Active Magnetic Mount Antenna, 3 Meters Cable			
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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