Winsonic®

NE22005-103111

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



Navigateworx NE22005-103111 industrial 5G VPN router enables wireless data connectivity over public and private 5G cellular networks.

NE22005-103111 router has dual SIM backup, 1 WAN and 3 LAN Ethernet ports, Dual band 2.4GHz and 5GHz 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.

Secure and reliable internet access

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

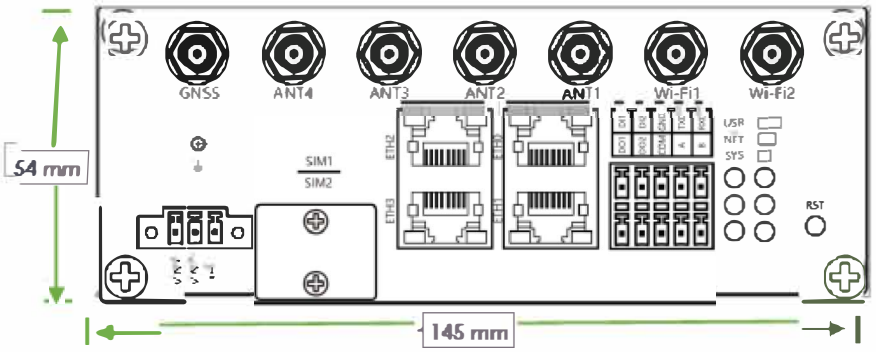
- User friendly web interface for user interaction
- Support Central Management Platform

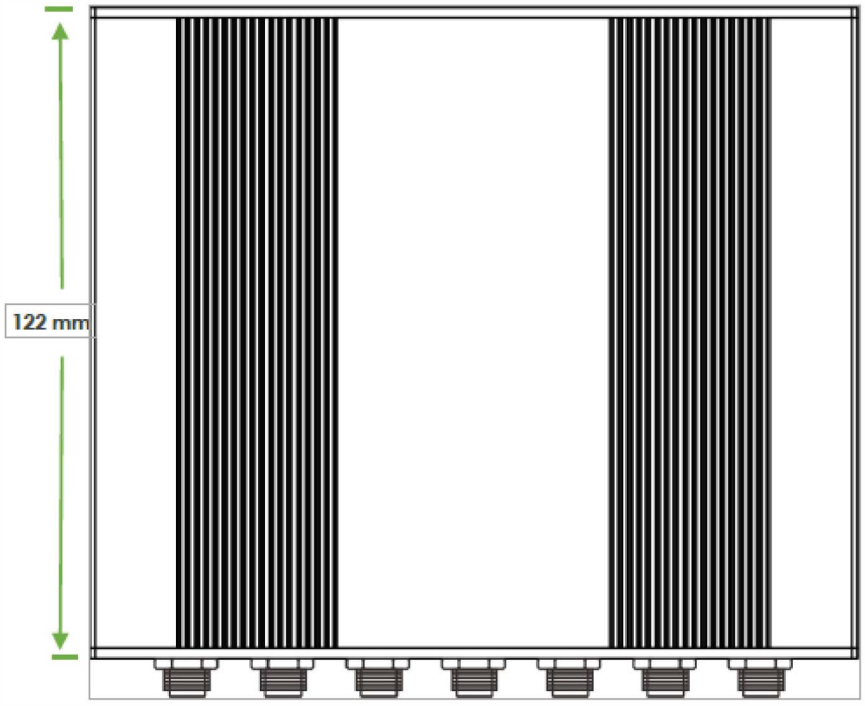
SPECIFICATIONS

CELLULAR	
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
Wireless Speed	5GHz: Up to 867Mbps 2.4GHz: Up to 300Mbps
Wireless Security	WPA, WPA2, WEP, CCMP, TKIP
Frequency Bands	5.15 – 5.725 GHz (5 GHz ISM band)(EU) 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	± 15 KV
Baud Rate	1200bps to 921600bps
DIGITAL INPUT & OUTPUT	
Type	2 x DI(dry contact) + 2 x DO(wet contact)
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 Data link: 600 mA (peak) @12 V
HARDWARE	
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
Extended Temperature	-40 °C to 85 °C
Operating Humidity	5% to 95% non-condensing

NETWORK		
Routing	Static routing	
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, Port mapping, DMZ, 1 to1 NAT, DDos Defense	
DDNS	Supported some service providers, others can be configured manually	
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	
MONITORING & MANAGEMENT		
Web GUI	HTTP/HTTPS, firmware upgrade	
Command Line Interface	SSHv2 and TELNET	
Management platform	Devices Management Platform	
APP CENTER		
APPs	**VPN**: L2TP, PPTP, DMVPN **Network**: Dynamic Routing (RIPv1/v2, OSPF, BGP), Email Notification, QoS **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	
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	

DIMENSIONS


GNSS
ANT4
ANT3
ANT2
ANT1
Wi-Fi1
Wi-Fi2
SIM1
SIM2
USR
NET
SYS
RST
54 mm
145 mm


122 mm