



Wireless Router 5G

The Wireless Router 5G enables you to create a robust cellular connection in an industrial production environment. This product supports 4G and 5G cellular technology and is ideal for communication within autonomous guided vehicles and other industrial machines.



Integrated Power Connector

- 1 x 4-pin terminal block, grey with lock
- 2 pin power input
- 2 pin relay

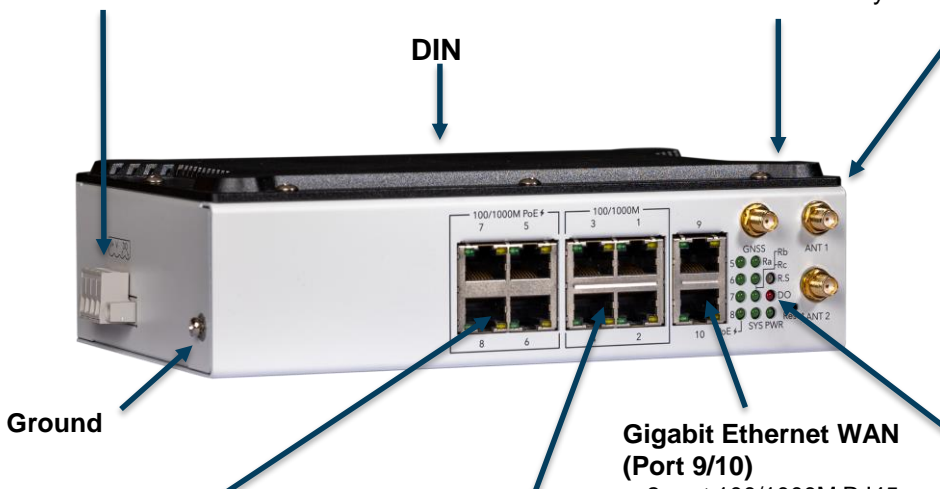
SIM Socket

- 2 x 4FF nano with tray

SMA Socket - Cellular

- 4x SMA female socket

No.	5GNR	LTE
Cellular 1	5GNR Main	LTE-Main
Cellular 2	5GNR Main	LTE-Div.
GNSS	5GNR Div	LTE-Div.
Cellular 3	5GNR Div	LTE-Div.



DIN

Ground

Gigabit PoE Ethernet (Port 5-8)

- 4-port 100/1000M RJ45
- IEEE 802.3af/at PoE+

Gigabit Ethernet (Port 1-4)

- 4-port 100/1000M RJ45

Gigabit Ethernet WAN (Port 9/10)

- 2-port 100/1000M RJ45

System LEDs & Reset button

- 1 x Ring (Amber/Green)
- 1 x DO (Red)
- 1 x Power (Green)
- 2 x Cellular(5G/LTE) (Green)
- 1 x WLAN (Green, WLAN model only)
- 1 x System (Green)
- 4 x PoE (Green, PoE model only)

Technology	
Standard	3GPP 5G-NR Release 15 Non-standalone (NSA) and standalone (SA). 4G fallback.
	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet copper
	IEEE 802.3x Flow Control and back-pressure
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	IEEE 802.1p Class of Service (CoS)
	IEEE 802.1Q VLAN and GVRP
	ITU-T G.8032 version 2 Ethernet ring protection switching(ERPSv2)
	IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP)
	IEEE 802.1Q-2005 Multiple Spanning Tree Protocol (MSTP)
	IEEE 802.3ad Link Aggregation Control Protocol (LACP)
	IEEE 802.1X Port based Network Access Protocol
	IEEE 1588 Precision Time Protocol v2
	IEEE 802.3af/at Power-over-Ethernet
Interface	
Ethernet Port	LAN: 8x 10/100/1000Base-T RJ45, Auto Negotiation, Auto MDI/MDI-X, with 4x IEEE 802.3af/at PoE/PoE+ WAN: 2x 100/1000Base-T RJ45, Auto Negotiation, Auto MDI/MDI-X
System LED	1 x Ring: Off: Ring disabled, Green On: Ring normal (Not RPL Owner), Green Blinking: Ring normal (RPL Owner), Amber On: Ring abnormal, Amber Blinking: Ring port fail 1 x DO (Red) 1 x Power (Green) 2 x Cellular(5G/LTE) (Green), Ra:SIM detected: Green On, SIM not inserted: Off Rb: 5G/LTE connection: Green On, disconnected: Off 1 x WLAN (Green, WLAN version only), Rc: AP mode: Green On, Station mode connected: Green Blinking, Station mode/radio disable: Off 1 x System (Green) 4 x PoE (Green, PoE model only)
Ethernet Port LED	Link (Green On), Activity (Green Blinking), Speed 1000M(Amber On), Speed 100M(Off)
Reset	System Reset (2~6 Seconds) / Default Settings Reset (over 7 Seconds)
SMA Connector	4x SMA Female socket for LTE/5G NR Antennas
SIM Socket	2x 4FF Nano SIM
Power Input, Digital Output	4-Pin Removable terminal block connector, grey with lock 2 Pin for power Input 2 Pin for relay DO: Dry relay output with 0.5A/24V DC
Cellular Properties	
Standard	5G/4G Multi-mode, 3GPP Rel.15 5G NSA and SA mode LTE Cat.20
Frequency Bands	5G NR n78 LTE FDD B1/B3/B7/B20 LTE TDD B38/B42/B43 ENDC b1/n78, b3/n78, b7/n78, b20/n78, b38/n78 Other bands available on request

Software	
Management	CGI WebGUI, Command Line Interface (CLI), IPv4/, Telnet, SNMP v1/v2c/v3, RMON, LLDP, DHCP server/client/Option 82, TFTP, System Log, SMTP
Traffic Management	Flow Control, Rate Control, Port Mirror, CoS, QoS, RFC 2474 DiffServ
Filter	IGMP Snooping v1/v2/v3, IGMP Snooping, IGMP Query, GMRP, IEEE802.1Q VLAN, QinQ, GVRP, Private VLAN
Security	IEEE 802.1X/RADIUS, TLS v1.2, HTTPs/SSH, First login password management
Advanced Security	TACACS+, Multi-user authentication, IEEE802.1x MAB, DHCP Snooping/IPSG, Dynamic ARP inspection, SFTP
Redundancy	ERPSv2 (HW-based CFM), STP/RSTP/MSTP, Port Trunk/LACP
Time Management	NTP, IEEE 1588 Precision Time Protocol v2
WAN/ Routing/NAT/Firewall/VPN	Throughput of WAN ports routing: 70 Mbps Dual WAN Interface (Port 9-10) Routing: RIPv2, OSPFv2, VRRPv2, *Static Multicast Route NAT: 1-1 NAT, NAPT(SNAT/DNAT) Cellular: "Routing behind MS", "passthrough" Firewall: Stateful Inspection firewall, DMZ VPN: IPSec, OpenVPN, GRE, L2TP
MIB	ERPS MIB, MIB-II, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB
Cellular Configuration	Radio on/off, 5G/4G LTE Configuration, SIM Security, Connection Status, Cellular Time
Power Requirement	
Input Voltage	24VDC (9.6-57 VDC for both PoE/Non-PoE models)
Reverse Polarity Protect	Yes
Input Current	5.54A@24VDC with 120W PD loading
Power Consumption	Max 12W@24VDC full traffic without PD Loading
PoE	
Power forwarding mode	Alternative A
PoE Power Budget	System: Max. 60W@70°C/12V, 120W@70°C/24V, Per Port: Max. 30W
PoE Standard	IEEE 802.3af/at
Management	PoE Enable/Disable, System/Port Power Budget Control, PoE Scheduling, PoE Status
Mechanical	
Installation	Wall mount/Din rail mount
Enclosure Material	Steel Metal with Aluminum
Dimension	200x 55 x 126 (W x H x D) / without Mounting Clip
Ingress Protection	IP30
Weight	~1500g without package
Environmental	
Operating Temperature & Humidity	-40°C~70°C , 5%~95% Non- Condensing
Storage Temperature	-40°C~85°C
MTBF	>200,000 hours
CE Conformance	
Safety	EN62368-1(LVD)
Radio	EN62311 EN301908-1/13/25
EMC	EN301489-1/52 EN61000-6-2/4 EN55032/55035 EN55016-2-3

Ordering Information

Model Name	NV1000 Wireless Router 5G
Package List	1 x Product Unit 1 x 4-pin Removable Terminal Block Connector 1 x Wall mounting kit 4 x Antennas
Accessories	E-014 Power supply including EU, UK and USA plug

Dimensions

