

NB2700-L-G

Vehicle Router with LTE + 5x ETH + GNSS + E-Mark

Modular mobile router with 5-port Ethernet switch for wireless Internet access in vehicles.



Keyfeatures

Mobile / Cellular	1x LTE, UMTS, GSM
SIM	2x Mini SIM
Ethernet	5x Fast Ethernet
IO	4x Digital I/O
Serial / Fieldbus	1x RS-232
Positioning	Multi-GNSS
Operation Temperature	-25 °C to +70 °C
Software	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, free updates
Compliance	CE (RED), Vehicle (UN ECE R10, UN ECE R118)
Modularity	Extensions on request

Product description

The vehicle-approved NB2700 is a rugged and field-proven router with versatile features for applications such as Passenger Infotainment, Ticketing, Fleet Management and Emergency Services.

Applications

- [Emergency Services](#)
- [Smart Traffic](#)
- [Fleet Management](#)
- [Tracking](#)
- [Ticketing](#)
- [CCTV](#)
- [Passenger Infotainment](#)

Specifications

Mobile / Cellular	Standard	<p>1x Multimode LTE, UMTS, GSM for EMEA 4G - LTE B1 (2100), B3 (1800), B5 (850), B7 (2600), B8 (900), B20 (800) 3G - DC-HSPA+/UMTS B1 (2100), B2 (1900), B5 (850), B8 (900) 2G - GSM/GPRS/EDGE B2 (1900), B3 (1800), B5 (850), B8 (900) Category LTE Cat 4 Antenna ports 2x2 MIMO Datarate down / up (max) 150 Mbps / 50 Mbps Voice CSFB FCC ID XPYTOBYL210</p>
	Region Connectors SIM	<p>Europe, Middle East and Africa (EMEA) 2x SMA female 2x Mini SIM - 2FF</p>
Ethernet	Standard	<p>5x Fast Ethernet Ethernet standard 100BASE-TX, Auto MDIX Speed 10/100 Mbps</p>
	Connector	5x RJ45
Positioning	Standard	<p>1x Multi-GNSS Receiver BeiDou, Galileo, GLONASS, GPS/QZSS 72-channel u-blox M8 engine 3 concurrent GNSS channels Antennas Active or passive Accuracy Up to 2.5 m CEP Sensitivity Up to -167 dBm Services Standalone, Assisted GPS Data server with JSON, NMEA data stream</p>
	Connector	1x SMA female

USB	Standard Connector	1x USB 2.0 Host 1x Type A
Serial, Fieldbus	Protocol	1x RS-232 Protocol EIA-232 Signals TX, RX Signal level High > 5 VDC, low < -5 VDC Bit rate Up to 1 Mbps
	Connector	1x Terminal block header 5 mm
IOs	Type	4x Digital I/O Signals 2x DI, 2x DO DI signals +, - DI level Low: 0 - 5 VDC, high: 7.2 - 40 VDC DO signals Relay outputs with NO, NC, COM (normally open, normally closed) DO level 0 - 60 VDC/1A Isolation 1'500 VDC
	Connector	1x Terminal block header 5 mm
System	Core Module Slots	600 MHz single-core, 64 MB RAM, 128 MB flash 1x miniPCIe (PCIe + USB), 1x miniPCIe (USB)
Software	Features	NetModule Router Software Package The standard software package includes an intuitive user interface, covering all modern routing protocols and enables efficient mass deployment. General Fail-safe update (FOTA), upgrade via USB, HTTP(S), (S)FTP or TFTP, remote CLI & WebGUI, RADIUS authentication, Simple Certificate Enrollment Protocol (SCEP), logging Remote Management Manage and monitor devices with SNMP, telnet, SSH, or HTTP/HTTPS Cellular Networking Multi-SIM / soft-SIM support, multi-APN support, signal strength monitoring, dedicated bearers, GSM/CSFB calls Wireless LAN Client or Access Point mode, multi client support, multi / hidden SSID, WPA-PSK/WPA2-PSK, WPA-RADIUS, WPA-EAP-TLS, IEEE 802.11w, RADIUS accounting, CAPWAP Link Management Link prioritisation, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision Network Services DHCP Client, DNS server, email, SMS service, NTP Client, NTP server, DynDNS, SSH server, SNMP agent, HTTP/HTTPS/FTP server, voice gateway, SIP call routing, coovachilli hotspot Routing Destination, policy, multipath, mobile-IP, OSPF, BGP, TCP-MSS clamping, STP/RSTP, bridging, LLDP, CDP, SONMP, EDP, FDP, IRDP, VRRP, VLAN, PPPoE VPN OpenVPN, IPsec, PPTP, GRE, CSD dial-in Firewall Stateful firewall, connection tracking, NAT, masquerading, bridge filtering
	Licenses	GNSS Enabled service GNSS location service Server with JSON-, NMEA stream
Power	Input Voltage	12, 24, 48 VDC Nominal voltages 12, 24, 48 VDC Absolute voltages 12 VDC to 48 VDC (-15 % / +20 %)
	Connector	1x Terminal block header 5 mm
	Consumption	6 W (max)
Mounting		Bracket
Dimensions	W x H x D	Width 165/190 mm x height 40 mm x depth 104 mm
Weight		700 g
Environment	Operating Temperature	-25°C to +70°C
	Ingress Protection Level	IP40
MTBF		310'000 h / 35.4 years, according SN29500 at environmental temperature 40 °C
Certifications	Compliance Domain	CE according to 2014/53/EU (RED), Vehicle according to UN ECE R10, UN ECE R118 Vehicle
Order Code		NB2700-L-G