



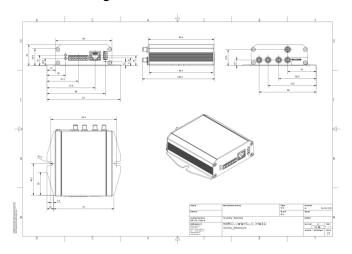
Product: NB800-LSu-GVE ☑

IIoT-Router with ETH, LTE, GNSS, USB, E-Mark

Product Description

Compact Wireless Router in a small form factor for simple connectivity tasks. With: LTE, Global Positioning (GNSS, GPS), USB Port, E-Mark vehicle approval

Technical Drawing



Technical Specifications

Product Overview

| Name: | NB800-LSu-GVE |
|-------|---|
| WAN: | IPv4; IPv6; IP Passthrough; DynDNS Client; PPPoE; |

Product Life Cycle

| Life Cycle: | Active - Product is available | |
|-------------|-------------------------------|--|

General Information

| Scope of delivery: | Device, General safety instructions, 1x Terminal block 3.5mm |
|--------------------|--|

More Interfaces

| USB interface: | 1 x USB 2.0 socket to connect an approved USB storage device, USB Type A socket |
|--|--|
| SIM Cards: | 1x Micro SIM (3FF) slot |
| Local Management and Device Replacement: | Management via Web (HTTPs); Command Line Interface (CLI) over SSH/Serial/Web; SNMP v1/v2c/v3; Discovery via LLDP, CDP, FDP, SONMP, EDP, IRDP |
| Digital Input: | 1x Digital Input, 1x Digital Output |
| Ethernet: | 1x Fast Ethernet (100 Base-TX, Auto MDIX, 10/100 Mbps, RJ45) |
| Power Supply: | 8-pin terminal block |
| GPS (global positioning system): | Multi-GNSS, Receiver BeiDou, Galileo, GLONASS, GPS/QZSS, Antennas: active or passive, Sensitivity: Down to -167 dBm, CEP (Circular Error Probability) ≤2.5m, Services: Standalone, GNSS Stream NMEA or JSON, 1x SMA female |
| I/O Connection: | On terminal block header 3.5mm |
| I/O Port Functionality: | Input Level: Low 0-3 VDC, High 9-32 VDC; Isolation 1500 VDC; Output Level: 0-32 VDC/1A |
| CPU: | 1 GHz single core |
| | |

| Memory: | 512 MB RAM |
|-----------------|---|
| Storage: | 4 GB flash |
| LEDs: | STAT, MOB/USR, ETH Speed, ETH Activity |
| Reset Function: | Pin-hole push button for reboot and factory reset |

Radio technology

Modules

| Description | 2G | 3 G | 4G | МІМО | Antenna Connector | Additional Radio Features |
|---|---|---|---|-------------|----------------------|------------------------------|
| Module 1 | GSM/GPRS/EDGE Bands: B2 (1900), B3 (1800), B5 (850), B8 (900) | DC-HSPA+/UMTS Bands: B1 (2100), B2 (1900), B5 (850), B8 (900) | LTE Cat. 4 Bands B1 (2100), B3 (1800), B5 (850), B7 (2600), B8 (900), B20 (800) | 2x2 MIMO | 2x SMA female | Voice: CSFB |
| Load Balance: Link Prioritizatoin and Aggregation; Load Balancing; Diffserv; SFQ; HTB; Priority based Queuing | | | | | | |

Power requirements

| Operating Voltage: | 12-24 VDC (±20%) |
|--------------------|---------------------------|
| Power consumption: | 5 W average, 10 W maximum |

Diagnostics features

| Alarm and event actions: | Email; SMS |
|--------------------------|---|
| Monitoring: | Watchdogs (Hard- and Software); Link Supervision; MQTT Broker |

Security features

| Multipoint VPN: | VXLAN, CSD dial-in, OpenVPN, IPSec, GRE, L2TP, PPTP, IKEv1/v2 |
|-----------------|---|

Service

Software

| Firmware Storage: | Fail-safe update (FOTA); Software Update via USB, HTTP(s) (push), FTP (pull), SFTP (pull), TFTP (pull) | | |
|-----------------------|---|--|--|
| Radius Server: | External Radius Server Management User Authentication | | |
| Software features: | Software Development Kit (SDK); | | |
| Software Version: | 5.0 (updates free of charge) | | |
| Operating system: | NRSW (NetModule Router Software) | | |
| Switching: | VLAN (802.1Q) | | |
| Redundancy: | Multipath TCP, VRRP (Virtual Router Redundancy Protocol), RSTP (Rapid Spanning Tree Protocol) | | |
| Diagnostics: | Netflow (Softflow), Ping, Traceroute, Tcpdump, Speed Test | | |
| Configuration: | DHCP Client and Server | | |
| Security: | Certificate Management (SCEP Client, Signing Requests), Certificate formats: PKCS12, PKCS7, PEM/DER, RSA/Ed25519 (OpenSSH/Dropbear), "Let's encrypt" support, Elliptic Curve Certificates (ECC), 802.1x for LAN, Stateful Firewall, Connection Tracking, Bridge Filtering | | |
| Time synchronisation: | NTP Client and Server, SNTP Server | | |
| Routing: | Destination, Policy, Multipath, OSPF, BGP, Multicast, TCP-MSS Clamping, NAT, NAPT, Masquerading | | |
| Management Software: | Compatible with "Connectivity Suite" | | |
| Cellular Functions: | Signal Strength Monitoring | | |

Ambient conditions

| Air Pressure (Operation): | Up to 4000m above sea level |
|--------------------------------------|-----------------------------|
| Degree of Protection when Installed: | IP40 |
| Operating temperature: | -40-+70 °C |
| Relative humidity (non-condensing): | 0-95 % |

Mechanical construction

| Dimensions (WxHxD): | 85/11 mm x 32 mm x 110 mm |
|---------------------|---------------------------|
| Weight: | 220 g |
| Housing Material: | brushed aluminium |
| Mount Type: | Flat surface mounting |
| Labeling: | Type label on bottom |

Approvals

| Basis Standard: | CE according to 2014/53/EU (RED), UKCA (RER), FCC | |
|---|---|--|
| Safety of industrial control equipment: | EN 62368-1, IEC 62368-1, UL 62368-1 | |
| Transportation: | E-Mark, ECE R10, Fire Safety ECE R118 | |
| UK Regulation Compliance: | ation Compliance: UKCA Mark | |
| Suitability - Indoor: | Yes | |

Reliability

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Accessories

| Accessories to Order Separately: | DIN-Rail-Mounting-Clip (942998042) |
|----------------------------------|------------------------------------|

History

| | Desiring Number 0.40 Parising Date 40.40 0005 | |
|----------------------|---|--|
| Update and Revision: | Revision Number: 0.10 Revision Date: 12-16-2025 | |

Variants

| Item # | Туре | |
|-----------|---------------|--|
| 942998474 | NB800-LSu-GVE | |

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