

# NB800-LSu-G

## IIoT Router with LTE + ETH + USB + GNSS

Compact and modular mobile router to connect remote locations.



### Keyfeatures

<b>Mobile / Cellular</b>	1x LTE, UMTS, GSM
<b>SIM</b>	1x Micro SIM / 1x eSIM chip (on request)
<b>Ethernet</b>	1x Fast Ethernet
<b>Positioning</b>	Multi-GNSS
<b>USB</b>	USB 2.0 Host
<b>Operation Temperature</b>	-40 °C to +70 °C
<b>Software</b>	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, free updates.
<b>Compliance</b>	CE (RED)
<b>Modularity</b>	Extensions on request

### Product description

The compact NB800 is the cost-effective solution for a robust Internet connection in an industrial environment.

### Applications

- Condition Monitoring
- Smart Buildings
- Intelligent Lighting Management
- ATMs
- Point of Sale
- Digital Signage
- Renewable Energy
- CCTV
- Environmental Monitoring

### Specifications

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

<b>USB</b>	<b>Standard Connector</b>	1x USB 2.0 Host 1x Type A
<b>System</b>	<b>Core Module Slots</b>	1 GHz single core, 512 MB RAM, 4 GB flash, HW Rev. B02 1x Shield
<b>Software</b>	<b>Features</b>	<p>NetModule Router Software</p> <p><b>Package</b> The standard software package includes an intuitive user interface, covering all modern routing protocols and enables efficient mass deployment.</p> <p><b>General</b> Fail-safe update (FOTA), upgrade via USB, HTTP(S), (S)FTP or TFTP, remote CLI &amp; WebGUI, RADIUS authentication, Simple Certificate Enrollment Protocol (SCEP), logging</p> <p><b>Remote Management</b> Manage and monitor devices with SNMP, telnet, SSH, or HTTP/HTTPS</p> <p><b>Cellular Networking</b> Multi-SIM / soft-SIM support, multi-APN support, signal strength monitoring, dedicated bearers, GSM/CSFB calls</p> <p><b>Wireless LAN</b> 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</p> <p><b>Link Management</b> Link prioritisation, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision</p> <p><b>Network Services</b> 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</p> <p><b>Routing</b> Destination, policy, multipath, mobile-IP, OSPF, BGP, TCP-MSS clamping, STP/RSTP, bridging, LLDP, CDP, SONMP, EDP, FDP, IRDP, VRRP, VLAN, PPPoE</p> <p><b>VPN</b> OpenVPN, IPsec, PPTP, GRE, CSD dial-in</p> <p><b>Firewall</b> Stateful firewall, connection tracking, NAT, masquerading, bridge filtering</p>
	<b>Licenses</b>	<p>GNSS</p> <p><b>Enabled service</b> GNSS location service Server with JSON-, NMEA stream</p>
<b>Power</b>	<b>Input Voltage</b>	12, 24 VDC <b>Nominal voltages</b> 12, 24 VDC <b>Absolute voltages</b> 12 VDC to 24 VDC (-20 % / +20 %)
	<b>Connector Consumption</b>	1x Terminal block header 3.5 mm 5 W (average), 10 W (max)
<b>Mounting</b>		Bracket
<b>Dimensions</b>	<b>W x H x D</b>	Width 85/111 mm x height 32 mm x depth 110 mm
<b>Weight</b>		220 g
<b>Environment</b>	<b>Operating Temperature</b>	-40°C to +70°C
	<b>Ingress Protection Level</b>	IP40
<b>MTBF</b>		340'000 h / 38.8 years, according SN29500 at environmental temperature 40 °C
<b>Certifications</b>	<b>Compliance Domain</b>	CE according to 2014/53/EU (RED), 2011/65/EU (RoHS) Industrial
<b>Order Code</b>		NB800-LSu-G