

NB800-LWWtSu2C-E

IIoT Router with LTE + WLAN + BT/BLE + ETH + USB + 2x CAN + E-Mark

Compact and modular mobile IIoT router to connect special vehicles.



Keyfeatures

Mobile / Cellular	1x LTE, UMTS, GSM
SIM	1x Micro SIM
WiFi / WLAN	1x Dual-band IEEE 802.11a/b/g/n, 1x Bluetooth Low Energy
Ethernet	1x Fast Ethernet
Serial / Fieldbus	2x CAN active (read and write)
USB	USB 2.0 Host
Operation Temperature	-40 °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 compact NB800 is the cost-effective solution for a robust on-board Internet connection in vehicles.

Applications

- Passenger Infotainment
- eMobility
- Agriculture
- Fleet Management
- Telematics

Specifications

Mobile / Cellular	Standard	1x Multimode LTE, UMTS, GSM for EMEA 4G - LTE B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B5 (850), B7 (2600), B8 (900), B20 (800DD) 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 GSM
	Region Connectors SIM	Europe, Middle East and Africa (EMEA) 2x SMA female 1x Micro SIM - 3FF
WiFi / WLAN	Standard	1x Dual-band WLAN 2.4/5 GHz a/b/g/n + BT 4.2 combo Wireless standard IEEE 802.11a/b/g/n Bluetooth 4.2, Bluetooth Low Energy Frequency 2.4/5 GHz Antenna ports 2x2 MIMO Datarate (max) 144 Mbps 2.4 GHz 2x2 MIMO, 150 Mbps 5 GHz SISO Modes Client or access point (up to 10 clients) FCC ID Z64-WL18DBMOD
	Connector	2x SMA female
Ethernet	Standard	1x Fast Ethernet Ethernet standard 100BASE-TX, Auto MDIX Speed 10/100 Mbps
	Connector	1x RJ45
USB	Standard	1x USB 2.0 Host
	Connector	1x Type A

Serial, Fieldbus	Protocol	<p>2x CAN</p> <p>Protocol Controller Area Network V2.0B (ISO 11898)</p> <p>Signals CANH, CANL</p> <p>Signal level High > 2.75 V, low < 2.0 V</p> <p>Bit rate Up to 1 Mbps</p> <p>Termination 120 Ω configurable by software</p> <p>Bus access Active - read and write access</p> <p>Module CAN Shield</p>
	Connector	1x Terminal block header 3.5 mm
System	Core	600 MHz single core, 512 MB RAM, 4 GB flash
	Module Slots	1x Shield
Software	Features	<p>NetModule Router Software</p> <p>Package The standard software package includes an intuitive user interface, covering all modern routing protocols and enables efficient mass deployment.</p> <p>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</p> <p>Remote Management Manage and monitor devices with SNMP, telnet, SSH, or HTTP/HTTPS</p> <p>Cellular Networking Multi-SIM / soft-SIM support, multi-APN support, signal strength monitoring, dedicated bearers, GSM/CSFB calls</p> <p>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</p> <p>Link Management Link prioritisation, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision</p> <p>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</p> <p>Routing Destination, policy, multipath, mobile-IP, OSPF, BGP, TCP-MSS clamping, STP/RSTP, bridging, LLDP, CDP, SONMP, EDP, FDP, IRDP, VRRP, VLAN, PPPoE</p> <p>VPN OpenVPN, IPsec, PPTP, GRE, CSD dial-in</p> <p>Firewall Stateful firewall, connection tracking, NAT, masquerading, bridge filtering</p>
Power	Input Voltage	<p>12, 24 VDC</p> <p>Nominal voltages 12, 24 VDC</p> <p>Absolute voltages 12 VDC to 24 VDC (-20 % / +20 %)</p>
	Connector	1x Terminal block header 3.5 mm
	Consumption	5 W (average), 10 W (max)
Mounting		Bracket
Dimensions	W x H x D	Width 85/111 mm x height 32 mm x depth 110 mm
Weight		250 g
Environment	Operating Temperature	-40°C to +70°C
	Ingress Protection Level	IP40
MTBF		340'000 h according SN29500 at environmental temperature 40 °C
Certifications	Compliance Domain	CE according to 2014/53/EU (RED), 2011/65/EU (RoHS), Vehicle according to UN ECE R10, UN ECE R118 Vehicle
Order Code		NB800-LWWtSu2C-E