

NB2810-2L2Wac-Glx

Vehicle Router with 2x LTE + 2x WLAN-ac + 2x GbE-M12 + GNSS + ITxPT + E-Mark

High-performance and modular mobile router for wireless Internet access in vehicles.



Keyfeatures

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| Mobile / Cellular | 2x LTE, UMTS, GSM |
| SIM | 4x Micro SIM |
| WiFi / WLAN | 2x Dual-band IEEE 802.11a/b/g/n/ac, 100 Clients in Access Point Mode |
| Ethernet | 2x Gigabit Ethernet M12 |
| Power | 12 VDC to 48 VDC, Ignition Sense |
| 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), ITxPT |
| Modularity | Extensions on request |

Product description

The NB2810 provides in-vehicle wireless Internet access.

Applications

- Fleet Management
- Passenger WiFi
- Passenger Infotainment
- Ticketing
- CCTV

Specifications

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| Mobile / Cellular | Standard | 2x 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 |
| | Region Connectors SIM | Europe, Middle East and Africa (EMEA) 4x FAKRA D-coded male 4x Micro SIM - 3FF |
| WiFi / WLAN | Standard | 2x Dual-band WLAN 2.4/5 GHz a/b/g/n/ac Wireless standard IEEE 802.11a/b/g/n/ac Frequency 2.4/5 GHz Diversity 2x2 MIMO Datarate (max) 300 Mbps (2.4 GHz) / 866 Mbps (5 GHz) Modes Client or access point (up to 100 clients) FCC ID TK4WLE600VX |
| | Connector | 4x FAKRA I-coded male |
| Ethernet | Standard | 2x Gigabit Ethernet Ethernet standard 1000BASE-T, Auto MDIX Speed 10/100/1000 Mbps |
| | Connector | 2x M12 X-coded female |

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| Positioning | Standard | 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 |
| | Connector | 1x FAKRA C-coded male |
| USB | Standard | 1x USB 3.0 Host |
| | Connector | 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 3.5 mm (screw locking) |
| System | Core | 1.3 GHz dual-core, 1 GB RAM, 4 GB flash |
| | Module Slots | 2x miniPCIe (PCIe + USB), 2x 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 ITxPT Enabled services Inventory, FMS2IP, Vehicle2IP, location, time Standard ITxPT software compliance |
| Power | Input Voltage | 12, 24, 48 VDC Nominal voltages 12, 24, 48 VDC Absolute voltages 12 VDC to 48 VDC (-25 % / +20 %) Ignition sense Input with delayed shutdown |
| | Ignition Sense Connector Consumption | Yes 1x Terminal block header 3.5 mm (screw locking) 20 W (max) |
| Mounting | | Bracket |
| Dimensions | W x H x D | Width 164/190 mm x height 58 mm x depth 139.5 mm |
| Weight | | 1200 g |
| Environment | Operating Temperature | -25°C to +70°C |
| | Ingress Protection Level | IP40 |
| MTBF | | 200'000 h / 22.8 years, according SN29500 at environmental temperature 40 °C |

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| Certifications | Compliance | CE according to 2014/53/EU (RED), Vehicle according to UN ECE R10, UN ECE R118, ITxPT (hardware compliance requires adapter cables) |
| | Domain | Vehicle |

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| Order Code | NB2810-2L2Wac-Glx |
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