

NB800-LbbWWtSu-G

IIoT-Router mit LTE-NA + WLAN + BLE + ETH + USB + GNSS

Kompakter, modularer Mobilfunk-Router zur Vernetzung von schwer zugänglichen Orten.



Hauptmerkmale

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|---------------------------|---|
| Mobilfunk | 1x LTE, UMTS, GSM für NA |
| SIM | 1x Micro SIM / 1x eSIM Chip (auf Anfrage) |
| WiFi / WLAN | 1x Dual-band IEEE 802.11a/b/g/n (Wi-Fi 4), 1x Bluetooth Low Energy |
| Ethernet | 1x Fast Ethernet |
| Ortung | Multi-GNSS |
| USB | USB 2.0 Host |
| Betriebstemperatur | -40 °C bis +70 °C |
| Software | Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, freie Updates |
| Konformität | CE (RED) |
| Modularität | Erweiterungen auf Anfrage |

Produktbeschreibung

Der kompakte NB800 ist die kostengünstige Lösung für eine robuste Internetverbindung im industriellen Umfeld.

Anwendungen

- Zustandsüberwachung
- Industrielle Sicherheit
- Remote Management
- Intelligentes Beleuchtungsmanagement
- Smart Buildings
- Nachverfolgung
- Point of Sale
- Digital Signage

Spezifikation

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|--------------------------|-------------------|---|
| Mobile / Cellular | Standard | 1x Multimode LTE, UMTS, GSM for NA 4G - LTE B2 (1900), B4 (1700), B5 (850), B7 (2600), B17 (700) 3G - DC-HSPA+/UMTS B1 (2100), B2 (1900), B4 (AWS), B5 (850), B8 (900) 2G - GSM/GPRS/EDGE B2 (1900), B3 (1800), B5 (850), B8 (900) Category LTE Cat 4 Antenna ports 2x2 MIMO Data rate down / up (max) 150 Mbps / 50 Mbps Voice CSFB FCC ID XPTYOBYL200 |
| | Region | North America (NA) |
| | Connectors | 2x SMA female |
| | SIM | 1x Micro SIM - 3FF / eSIM Chip (auf Anfrage) |
| WiFi / WLAN | Standard | 1x Dual-band WLAN 2.4/5 GHz a/b/g/n (Wi-Fi 4) + BT 4.2 combo Wireless standard IEEE 802.11a/b/g/n (Wi-Fi 4) Bluetooth 4.2, Bluetooth Low Energy Frequency 2.4/5 GHz Antenna ports 2x2 MIMO Data rate (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 |

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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 SMA female |
| USB | Standard | 1x USB 2.0 Host |
| | Connector | 1x Type A |
| System | Core | 1 GHz single core, 512 MB RAM, 4 GB flash, HW Rev. B02 |
| | Module Slots | 1x Shield |
| 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), Hardware- und Software Watchdog Remote Management Manage and monitor devices with SNMP V1/V2/V3, Netmodule vendor MIB, telnet, SSH, or HTTP/HTTPS Cellular Networking Multi-SIM / eSIM support (optional license), multi-APN support, signal strength monitoring, dedicated bearers, CSFB/VoLTE calls (optional license) Wireless LAN Access Point, Client Mode, Mesh Point or Dual Modes (Mesh Access Point / Access Point - Client), WLAN Pseudo-Bridge Client Mode: Multiple Client SSID Profile, Encryption: Open, WEP, WPA1/2/3-Personal, WPA1/2/3-Enterprise. Fast Roaming: Fast BSS Transition (802.11r), PreAuthentication, Protected Management Frames (802.11w) AP Mode: Multi-SSIDs (up to 8) Encryption: Open WPA1/2/3-Personal, WPA1/2/3-Enterprise Fast Roaming: Fast BSS Transition (802.11r), PreAuthentication, DFS support Protected Management Frames (802.11w) Client Tracking, Band Steering, Hide SSID broadcasting, Isolate Clients, Accounting, Short guard Intervall Mesh Mode (802.11s): Encryption: None, SAE. Gateway announcements Link Management Link prioritization, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision, Services DHCP Client/Server, DNS Caching Server, Email, SMS Service, NTP Client/Server, SNTP Server, DynDNS, SSH Server, SNMP Agent, HTTP/HTTPS/FTP Server, IPv6 for WAN, 802.1x over Ethernet, MQTT Broker Voice Gateway (SIP, Call Routing, Audio with optional license) Coovachilli Hotspot Routing Destination, policy, multipath, mobile-IP, OSPF, BGP, multicast, TCP-MSS clamping, bridging discovery protocols LLDP, CDP, SONMP, EDP, FDP, IRDP, VRRP, STP/RSTP, VRRP, VLAN, PPPoE, VXLAN VPN OpenVPN, IPsec (IKEv1 and IKEv2), PPTP, GRE, L2TP, CSD dial-in, Certificate revocation service Firewall Stateful firewall, connection tracking, NAT, NAPT, masquerading, bridge filtering, Adress translation (based on SRC and DST ports) Encryption supporting password protected PKCS12 files, integrated random certificate key generator, "Let's encrypt" certificate, ECC (Certificates with Elliptic Cryptography) Quality of Service Diffserv, SFQ, HTB, Priority-based Queuing, Netflow (Softflow) Programmability SDK Troubleshooting Logging, Ping, Traceroute, Tcpdump, Speed-test |
| | Licenses | GNSS/GPS Services Server with JSON-, NMEA stream |
| Power | Input Voltage | 12, 24 VDC Nominal voltages 12, 24 VDC Absolute voltages 12 VDC to 24 VDC (-20 % / +20 %) |
| | Connector Consumption | 1x Terminal block header 3.5 mm 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 | | 220 g |
| Environment | Operating Temperature | -40°C to +70°C |
| | Ingress Protection Level | IP40 |
| MTBF | | 340'000 h / 38.8 years, according SN29500 at environmental temperature 40 °C |
| Certifications | Compliance Domain | CE according to 2014/53/EU (RED), 2011/65/EU (RoHS) Industrial |

