

NB800-LWWtSu-G

IIOT Router with LTE + WLAN + BT/BLE + ETH + USB + GNSS

Compact and modular mobile router to connect remote locations.



Keyfeatures

Mobile / Cellular	1x LTE, UMTS, GSM
SIM	1x Micro SIM / 1x eSIM chip (on request)
WiFi / WLAN	1x Dual-band IEEE 802.11a/b/g/n (Wi-Fi 4), 1x Bluetooth Low Energy
Ethernet	1x Fast Ethernet
Positioning	Multi-GNSS
USB	USB 2.0 Host
Operation Range	-40 °C to +70 °C
Software	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, free updates
Compliance	CE (RED)
Modularity	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
- Tracking
- IrackingIndustrial SecurityRemote ManagementSmart BuildingsPoint of Sale

- Digital SignageIntelligent Lighting Management

Specifications

Mobile / Cellular Standard 1x 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

Data rate down / up (max) 150 Mbps / 50 Mbps Voice CSFB (with optional Software License)

FCC ID XPYTOBYL210

Region Europe, Middle East and Africa (EMEA)

Connectors 2x SMA female

SIM 1x Micro SIM - 3FF / eSIM Chip (on request)

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 (supported features depending on product variant) 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 $\textbf{Cellular Networking} \ \textbf{Multi-SIM / eSIM support (optional license)}, \ \textbf{multi-APN support, signal strength monitoring, dedicated}$ 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 Enabled service GNSS location service 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 1x Terminal block header 3.5 mm Consumption 5 W (average), 10 W (max) Mounting Bracket Dimensions WxHxD Width 85/111 mm x height 32 mm x depth 110 mm Weight 220 a Environment Operating -40°C to +70°C Temperature **Ingress Protection** IP40 MTBF 340'000 h / 38.8 years, according SN29500 at environmental temperature 40 °C Certifications Compliance CE according to 2014/53/EU (RED), 2011/65/EU (RoHS) **Domain** Industrial

Order Code

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