

# NB2800-2LdWac-G

## Fahrzeug-Router mit 2x LTE-Adv + WLAN-ac + 2x GbE + GNSS + E-Mark

Leistungsstarker und modularer Mobilfunk-Router für drahtlosen Internetzugang im Fahrzeug.



### Hauptmerkmale

<b>Mobilfunk</b>	2x LTE-Adv., UMTS
<b>SIM</b>	4x Micro SIM
<b>WiFi / WLAN</b>	1x Dual-band IEEE 802.11a/b/g/n/ac, 100 Clients im Access Point Mode
<b>Ethernet</b>	2x Gigabit Ethernet
<b>Speisung</b>	12 VDC bis 48 VDC, Zündungserkennung
<b>Ortung</b>	Multi-GNSS
<b>Betriebstemperatur</b>	-25 °C bis +70 °C
<b>Software</b>	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, freie Updates
<b>Konformität</b>	CE (RED), Fahrzeug (UN ECE R10, UN ECE R118), ITxPT optional
<b>Modularität</b>	Erweiterungen auf Anfrage

### Produktbeschreibung

Der NB2800 bietet drahtlosen Internetzugang im Fahrzeug.

### Anwendungen

- Passagier-WLAN
- Passagier-Infotainment
- Fahrkartensysteme
- Videüberwachung
- Blaulichtorganisationen

### Spezifikation

<b>Mobile / Cellular</b>	<b>Standard</b>	2x Multimode LTE Advanced, UMTS for EMEA, NA <b>4G - LTE</b> B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B7 (2600), B12 (700ac), B13 (700c), B20 (800DD), B5 (850), B25 (1900), B26 (850), B29 (700), B41 (TDD2500), B30 (WCS) <b>3G - DC-HSPA+/UMTS</b> B1 (2100), B2 (1900), B3 (1800), B4 (1700), B5 (850), B8 (900) <b>2G - GSM/GPRS/EDGE</b> n.a. <b>Category</b> LTE Cat 6 <b>Antenna ports</b> 2x2 MIMO <b>Datarate down / up (max)</b> 300 Mbps / 50 Mbps <b>Voice</b> n.a. <b>FCC ID</b> N7NMC7455
	<b>Region</b> <b>Connectors</b> <b>SIM</b>	Europe, Middle East and Africa (EMEA) North America (NA) 4x FAKRA D-coded male 4x Micro SIM - 3FF
<b>WiFi / WLAN</b>	<b>Standard</b>	1x Dual-band WLAN 2.4/5 GHz a/b/g/n/ac <b>Wireless standard</b> IEEE 802.11a/b/g/n/ac <b>Frequency</b> 2.4/5 GHz <b>Diversity</b> 2x2 MIMO <b>Datarate (max)</b> 300 Mbps (2.4 GHz) / 866 Mbps (5 GHz) <b>Modes</b> Client or access point (up to 100 clients) <b>FCC ID</b> TK4WLE600VX
	<b>Connector</b>	2x FAKRA I-coded male
<b>Ethernet</b>	<b>Standard</b>	2x Gigabit Ethernet <b>Ethernet standard</b> 1000BASE-T, Auto MDIX <b>Speed</b> 10/100/1000 Mbps
	<b>Connector</b>	2x 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 FAKRA C-coded male
<b>USB</b>	<b>Standard</b>	1x USB 3.0 Host
	<b>Connector</b>	1x Type A
<b>Serial, Fieldbus</b>	<b>Protocol</b>	1x RS-232 <b>Protocol</b> EIA-232 <b>Signals</b> TX, RX <b>Signal level</b> High > 5 VDC, low < -5 VDC <b>Bit rate</b> Up to 1 Mbps
	<b>Connector</b>	1x Terminal block header 5 mm
<b>System</b>	<b>Core</b>	1.3 GHz dual core, 1 GB RAM, 4 GB flash
	<b>Module Slots</b>	2x miniPCIe (PCIe + USB), 2x miniPCIe (USB)
<b>Software</b>	<b>Features</b>	NetModule Router Software <b>Package</b> The standard software package includes an intuitive user interface, covering all modern routing protocols and enables efficient mass deployment. <b>General</b> Fail-safe update (FOTA), upgrade via USB, HTTP(S), (S)FTP or TFTP, remote CLI & WebGUI, RADIUS authentication, Simple Certificate Enrollment Protocol (SCEP), logging <b>Remote Management</b> Manage and monitor devices with SNMP, telnet, SSH, or HTTP/HTTPS <b>Cellular Networking</b> Multi-SIM / soft-SIM support, multi-APN support, signal strength monitoring, dedicated bearers, GSM/CSFB calls <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 <b>Link Management</b> Link prioritisation, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision <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 <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 <b>VPN</b> OpenVPN, IPsec, PPTP, GRE, CSD dial-in <b>Firewall</b> Stateful firewall, connection tracking, NAT, masquerading, bridge filtering
	<b>Licenses</b>	GNSS <b>Enabled service</b> GNSS location service Server with JSON-, NMEA stream
<b>Power</b>	<b>Input Voltage</b>	12, 24, 48 VDC <b>Nominal voltages</b> 12, 24, 48 VDC <b>Absolute voltages</b> 12 VDC to 48 VDC (-25 % / +20 %) <b>Ignition sense</b> Input with delayed shutdown
	<b>Ignition Sense</b> <b>Connector</b> <b>Consumption</b>	Yes 1x Terminal block header 5 mm 20 W (max)
<b>Mounting</b>		Bracket
<b>Dimensions</b>	<b>W x H x D</b>	Width 164/190 mm x height 58 mm x depth 139.5 mm
<b>Weight</b>		1200 g
<b>Environment</b>	<b>Operating Temperature</b>	-25°C to +70°C
	<b>Ingress Protection Level</b>	IP40
<b>MTBF</b>		200'000 h / 22.8 years, according SN29500 at environmental temperature 40 °C
<b>Certifications</b>	<b>Compliance Domain</b>	CE according to 2014/53/EU (RED), Vehicle according to UN ECE R10, UN ECE R118 Vehicle

