

# NG800-LWWtGd2Br2CnHcXe

Automotive Gateway mit LTE + WLAN + BT/BLE + ETH + 2x ETH-Auto + 2x CAN-aktiv + GNSS-DR + IP55

Modularer automotive Gateway für Telematik-Anwendungen. Ohne eSIM Chip.



## Hauptmerkmale

<b>Mobilfunk</b>	1x LTE, UMTS, GSM
<b>SIM</b>	1x Micro SIM
<b>WiFi / WLAN</b>	1x Dual-band IEEE 802.11a/b/g/n (Wi-Fi 4), 1x Bluetooth Low Energy
<b>Ethernet</b>	2x Automotive Ethernet, 1x Fast Ethernet
<b>Serielle / Feldbus</b>	1x RS-232 Konsole, 2x CAN aktive (Lese- und Schreibzugriff)
<b>Ortung</b>	Multi-GNSS mit Dead Reckoning
<b>Betriebstemperatur</b>	-40 °C bis +75 °C (+85 °C erweitert)
<b>Umwelt</b>	IP55, Vibration & Schock (ISO 16750-3)
<b>Software</b>	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, eUICC SIM Profile Update, freie Updates
<b>Konformität</b>	CE (RED), Fahrzeug (UNECE-R10, UNECE-R118)
<b>Modularität</b>	Erweiterungen auf Anfrage

## Produktbeschreibung

Die IP55 Variante des multifunktionalen automotive Gateways NG800 mit klassischer Micro SIM anstelle eines eSIM Chip eignet sich insbesondere für Pilotprojekte und Evaluationen.

## Anwendungen

- Landwirtschaft
- Telematik
- Flottenmanagement
- Blaulichtorganisationen
- eMobility
- Mining
- Öl & Gas
- Nachverfolgung
- Intelligenter Verkehr

## Spezifikation

<b>Mobile / Cellular</b>	<b>Standard</b>	1x Multimode LTE, UMTS, GSM for EMEA <b>4G - LTE</b> B1 (2100), B3 (1800), B5 (850), B7 (2600), B8 (900), B20 (800) <b>3G - DC-HSPA+/UMTS</b> B1 (2100), B2 (1900), B5 (850), B8 (900) <b>2G - GSM/GPRS/EDGE</b> B2 (1900), B3 (1800), B5 (850), B8 (900) <b>Category</b> LTE Cat 4 <b>Antenna ports</b> 2x2 MIMO <b>Data rate down / up (max)</b> 150 Mbps / 50 Mbps <b>Voice</b> CSFB <b>FCC ID</b> XPTYOBYL210
	<b>Region</b> <b>Connectors</b> <b>SIM</b>	Europe, Middle East and Africa (EMEA) 2x FAKRA D-coded male 1x Micro SIM - 3FF
<b>WiFi / WLAN</b>	<b>Standard</b>	1x Dual-band WLAN 2.4/5 GHz a/b/g/n (Wi-Fi 4) + BT 4.2 combo <b>Wireless standard</b> IEEE 802.11a/b/g/n (Wi-Fi 4) Bluetooth 4.2, Bluetooth Low Energy <b>Frequency</b> 2.4/5 GHz <b>Antenna ports</b> 2x2 MIMO <b>Data rate (max)</b> 144 Mbps 2.4 GHz 2x2 MIMO, 150 Mbps 5 GHz SISO <b>Modes</b> Client or access point (up to 10 clients) <b>FCC ID</b> Z64-WL18DBMOD
	<b>Connector</b>	2x FAKRA I-coded male

<b>Ethernet</b>	<b>Standard</b>	1x Fast Ethernet <b>Ethernet standard</b> 100BASE-TX, Auto MDIX <b>Speed</b> 10/100 Mbps 2x Automotive Ethernet - BroadR <b>Ethernet standard</b> 100BASE-T1 (BroadR-Reach) <b>Speed</b> 10/100 Mbps
	<b>Connector</b>	1x CMC-48 header
<b>Positioning</b>	<b>Standard</b>	1x Multi-GNSS with Automotive Dead Reckoning <b>Receiver</b> BeiDou, Galileo, GLONASS, GPS/QZSS 72-channel u-blox M8 engine 3 concurrent GNSS channels Integrated motion sensors <b>Antennas</b> Active or passive <b>Accuracy</b> Up to 2.5 m CEP <b>Sensitivity</b> Up to -160 dBm <b>Services</b> Standalone, assisted GPS 3D Dead Reckoning Data server with JSON, NMEA data stream
	<b>Connector</b>	1x FAKRA C-coded male
<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 2x CAN-active <b>Protocol</b> Controller Area Network V2.0B (ISO 11898) <b>Signals</b> CANH, CANL <b>Signal level</b> High > 2.75 V, low < 2.0 V <b>Bit rate</b> Up to 1 Mbps <b>Bus access</b> Active - read and write access
	<b>Connector</b>	1x CMC-48 header
<b>System</b>	<b>Core</b>	1000 MHz single core, 512 MB RAM, 8 GB flash
	<b>Module Slots</b>	1x Extension Module
<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, NAPT, 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 VDC <b>Nominal voltages</b> 12, 24 VDC <b>Absolute voltages</b> 9 VDC to 36 VDC <b>Power Management</b> Various power modes and wake-up sources (on request)
	<b>Ignition Sense</b>	Ja
	<b>Connector</b>	1x CMC-48 header
	<b>Consumption</b>	7 W (average), 10 W (max), power down state < 2 mA @ 24 VDC
<b>Mounting</b>		Bracket
<b>Dimensions</b>	<b>W x H x D</b>	Width 200 mm x height 40 mm x depth 120 mm
<b>Weight</b>		520 g

<b>Environment</b>	<b>Operating Temperature</b> <b>Ingress Protection Level</b> <b>Vibration</b> <b>Shock</b>	-40°C to +75°C IP55 ISO 16750-3 (road vehicles), IEC 60068-2-64 (24 h) ISO 16750-3 (road vehicles), IEC 60068-2-27 (60 shocks)
<b>MTBF</b>		296'000 h / 33.8 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 UNECE-R10 and UNECE-R118 Vehicle
<b>Order Code</b>		NG800-LWWtGd2Br2CnHcXe