

NG800-LgWWtGd2Br2Cn

Automotive Gateway mit LTE-APAC + WLAN + BLE + ETH + 2x ETH-Auto + 2x CAN-aktiv + GNSS-DR + eUICC + IP69K

Modularer automotive Gateway für Telematik-Anwendungen



Hauptmerkmale

Mobilfunk	1x LTE, UMTS, GSM für APAC
SIM	1x eSIM Chip, 1x Micro SIM (auf Anfrage)
WiFi / WLAN	1x Dual-band IEEE 802.11a/b/g/n (Wi-Fi 4), 1x Bluetooth Low Energy
Ethernet	2x Automotive Ethernet, 1x Fast Ethernet
Serielle / Feldbus	1x RS-232 Konsole, 2x CAN aktive (Lese- und Schreibzugriff)
Ortung	Multi-GNSS mit Dead Reckoning
Betriebstemperatur	-40 °C bis +75 °C
Umwelt	IP69K Schutz vor Staub und Wasser, Vibration & Schock (ISO 16750-3)
Software	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, eUICC SIM Profile Update, freie Updates
Konformität	CE (RED), Fahrzeug (UNECE-R10, UNECE-R118)
Modularität	Erweiterungen auf Anfrage

Produktbeschreibung

Das multifunktionale automotive Gateway im IP69K-Gehäuse eignet sich für raue Umgebungen und bietet die notwendige robuste Kommunikation zwischen On-Board-Fahrzeugausstattung und Cloud-Anwendungen.

Anwendungen

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

Spezifikation

Mobile / Cellular	Standard	1x Multimode LTE, UMTS, GSM for APAC 4G - LTE B1 (2100), B3 (1800), B5 (850), B7 (2600), B8 (900), B28 (750) 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 FCC ID XPTYOBYL280
	Region Connectors SIM	Asia and Pacific (APAC) 2x FAKRA D-coded male 1x eSIM Chip, 1x Micro SIM - 3FF (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 POR-WL18DBMOD
	Connector	2x FAKRA I-coded male

Ethernet	Standard	1x Fast Ethernet Ethernet standard 100BASE-TX, Auto MDIX Speed 10/100 Mbps 2x Automotive Ethernet - BroadR Ethernet standard 100BASE-T1 (BroadR-Reach) Speed 10/100 Mbps
	Connector	1x CMC-48 header
Positioning	Standard	1x Multi-GNSS with Automotive Dead Reckoning Receiver BeiDou, Galileo, GLONASS, GPS/QZSS 72-channel u-blox M8 engine 3 concurrent GNSS channels Integrated motion sensors Antennas Active or passive Accuracy Up to 2.5 m CEP Sensitivity Up to -160 dBm Services Standalone, assisted GPS 3D Dead Reckoning Data server with JSON, NMEA data stream
	Connector	1x FAKRA C-coded male
Serial, Fieldbus	Protocol	1x RS-232 Protocol EIA-232 Signals TX, RX Signal level High > 5 VDC, low < -5 VDC Bit rate Up to 115 200 Bit/s 2x CAN-active Protocol Controller Area Network V2.0B (ISO 11898) Signals CANH, CANL Signal level High > 2.75 V, low < 2.0 V Bit rate Up to 1 Mbps Bus access Active - read and write access
	Connector	1x CMC-48 header
System	Core	1000 MHz single core, 512 MB RAM, 8 GB flash
	Module Slots	1x Extension Module
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, Address 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 eUICC Enabled services Remote eUICC SIM profile update with static profile management. Standard According to the remote subscriber provisioning standardized by GSMA in SGP.21 and 22 and validated according to SGP.23.

Power	Input Voltage	12, 24 VDC Nominal voltages 12, 24 VDC Absolute voltages 9 VDC to 36 VDC Power Management Various power modes and wake-up sources (on request)
	Ignition Sense	Ja
	Connector	1x CMC-48 header
	Consumption	7 W (average), 10 W (max), power down state < 2 mA @ 24 VDC
Mounting		Bracket
Dimensions	W x H x D	Width 200 mm x height 40 mm x depth 120 mm
Weight		520 g
Environment	Operating Temperature	-40°C to +75°C
	Ingress Protection Level	IP69K – Staubdicht, Schutz gegen Wasser bei Hochdruck-/Dampfstrahlreinigung
	Vibration	ISO 16750-3 (road vehicles), IEC 60068-2-64 (24 h)
	Shock	ISO 16750-3 (road vehicles), IEC 60068-2-27 (60 shocks)
MTBF		296'000 h / 33.8 years, according SN29500 at environmental temperature 40 °C
Certifications	Compliance Domain	CE according to 2014/53/EU (RED), Vehicle according to UNECE-R10 and UNECE-R118 Vehicle
Order Code		NG800-LgWWtGd2Br2Cn