

NG800-LWWtGd2Br2Cm

Automotive Gateway with LTE + WLAN + BT/BLE + ETH + 2x ETH-Auto + 2x CAN-passive + GNSS-DR + eUICC + IP69K

Modular automotive gateway for telematics applications.



Keyfeatures

Mobile / Cellular	1x LTE, UMTS, GSM
SIM	1x eSIM chip + 1x Micro SIM (on request)
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
Serial / Fieldbus	1x RS-232 console, 2x CAN passive (read access only)
Positioning	Multi-GNSS with Dead Reckoning
Operation Temperature	-40 °C to +75 °C (+85 °C extended)
Environment	IP69K dust & high pressure, high temperature water jet protection
Software	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, eUICC SIM Profile Update, free updates
Compliance	CE (RED), Vehicle (UNECE-R10, UNECE-R118)
Modularity	Extensions on request

Product description

The multifunctional automotive gateway in an IP69K housing is suitable for harsh environments and provides the necessary robust communication between on-board vehicle equipment and cloud applications.

Applications

- Agriculture
- Telematics
- Fleet Management
- Emergency Services
- eMobility
- Mining
- Oil & Gas
- Tracking
- Smart Traffic

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 Datarate down / up (max) 150 Mbps / 50 Mbps Voice CSFB FCC ID XPTYOBYL210
	Region	Europe, Middle East and Africa (EMEA)
	Connectors	2x FAKRA D-coded male
	SIM	1x eSIM Chip, 1x Micro SIM - 3FF (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 Datarate (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 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 1 Mbps 2x CAN 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 Passive - read access (Option -Cm) Active - read and write access only on request (Option -Cn)
	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), logging Remote Management Manage and monitor devices with SNMP, telnet, SSH, or HTTP/HTTPS Cellular Networking Multi-SIM / soft-SIM support, multi-APN support, signal strength monitoring, dedicated bearers, GSM/CSFB calls Wireless LAN 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 Link Management Link prioritisation, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision Network Services 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 Routing Destination, policy, multipath, mobile-IP, OSPF, BGP, TCP-MSS clamping, STP/RSTP, bridging, LLDP, CDP, SONMP, EDP, FDP, IRDP, VRRP, VLAN, PPPoE VPN OpenVPN, IPsec, PPTP, GRE, CSD dial-in Firewall Stateful firewall, connection tracking, NAT, masquerading, bridge filtering
	Licenses	GNSS, Enabled service GNSS location service 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	Yes
	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
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-LWWtGd2Br2Cm