

IoT-Gateway MC-NR 4G Core



The MC-NR is an LTE Cat 1 bis cellular gateway optimized for M2M, IoT applications and edge computing.

The HW and SW design ist Made in Germany and 100% final tested for high quality.

Developed in accordance with EN 18031, compliant with forthcoming European CRA standards.

Key features & functionalities:

- IoT/M2M-optimized LTE Cat 1 bis cellular modem
- Robustness control for power shutdown, HW watchdog, latest generation SoC controller, dual-boot partition
- Open OS, Vendor independent architecture, Long-term maintainability and future-proof design
- Cyber Security: Development, Update LifeCycle, EN 18031



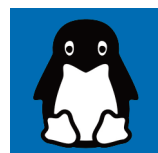
LTE Cat 1 bis



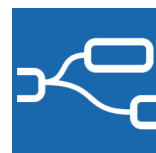
USB 2.0



1 x 10/100 Mbps



OpenWrt Linux



Node-RED™



GPS/GNSS

MC-NR 4G Core

Technical Data

Product	IoT-Gateway	Art.-No.
Model	MC-NR 4G Core	194840
General		Description
Type	Wireless 4G LTE Gateway Cat 1 bis	
Dimensions (W x H x D)	104 x 82 x 29 mm	
Weight	approx. 170 g	
Supply voltage	8 to 30V DC	
Operation temperature	-20°C to +70°C	
Housing	Aluminum	
Protection class	IP20	
Mounting	Screw mounting	
Module embedded	Telit	LE910Q1
Mobile		
Supporting networks	LTE Cat 1 bis: FDD Bands: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B66 TDD Bands: B34, B38, B39, B40, B41	
Transmission rates LTE	Max 10Mbps (DL)/ 5Mbps (UL)	
Antenna connections	1 x LTE SMA (female) 1 x GNSS SMA (female)	2
Controller, Memory and OS		
Controller	ARM Cortex-A55 NXP i.MX91 800 MHz	
RAM	512 MB LPDDR4	
Flash	8 GB	
OS	OpenWrt Linux	
Programmable	C/C++, Python™, Java™, Node-RED™ or others	
Interfaces		
Power	2-pin connector, WR-MPC3 3mm Male 2Pin, Würth 66200221122	x
Ethernet	1 x 10/100 Mbps 1 x 10/100/1000 Mbps	2
USB	1 x USB 2.0, 1A max.	1
WiFi	-	-
GNSS	GPS, GLONASS, Galileo, Beidou, IRNSS, QZSS	x
SIM	Nano-SIM	x
LED Power	Supply voltage	x
LED LTE_LINK	Status module	x
LED Warn	Signalling of error states	x
LED Ethernet Green	Link/Speed	x
LED Ethernet Orange	Activity	x
Accessories		Part-No.
Portable antenna	GSM/UMTS/LTE, 50 mm, SMA (male)	101291
Portable antenna	GSM/UMTS/LTE/WLAN, SMA (male)	101292
GPS adhesive antenna	GPS 1575,42±1MHz, 3m RG174, SMA (male)	163027

Errors and omissions excepted.