

# IoT-Gateway

## MC-NR 4G Base



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



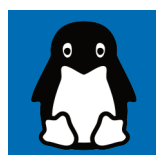
LTE Cat 1 bis



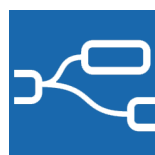
USB 2.0



1 x 10/100 Mbps



OpenWrt Linux



Node-RED™

# MC-NR 4G Base

## Technical Data

| Product                   | IoT-Gateway   | Art.-No. |
|---------------------------|---|----------|
| Model                     | MC-NR 4G Base   | 194798   |
| General                   | Description   |          |
| Type                      | Wireless 4G LTE Gateway Cat 1 bis   |          |
| Dimensions (W x H x D)    | 99 x 67.5 x 22 mm   |          |
| Weight                    | approx. 98 g  |          |
| Supply voltage            | 8 to 30V DC   |          |
| Operation temperature     | -20°C to +70°C  |          |
| Housing                   | Plastic   |          |
| Protection class          | IP20  |          |
| Mounting                  | Screw mounting  |          |
| Module embedded           | Telit   | LE910Q1  |
| Mobile                    |   |          |
| Supporting networks       | <b>LTE Cat 1 bis:</b><br>FDD Bands: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B66<br>TDD Bands: B34, B38, B39, B40, B41 |          |
| Transmission rates LTE    | Max 10Mbps (DL)/ 5Mbps (UL)   |          |
| Antenna connections       | SMA (female)  | 1        |
| Controller, Memory and OS |   |          |
| Controller                | ARM Cortex-A55 NXP i.MX91 800 MHz   |          |
| RAM                       | 256 MB LPDDR4   |          |
| Flash                     | 4 GB / 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        |
| WiFi                      | -   | -        |
| SIM                       | Nano-SIM (internal)   | 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   |

Errors and omissions excepted.