



Mobile Communication Unit

General Description

Our Mobile Communication Unit (MCU) is the key component to connect your vehicle with the internet. The product ensures access to local information from a platform anywhere, anytime. The MCU has been optimized for micro-mobility vehicles. In combination with our "Digital Services Platform" (Backend) our MCU makes your vehicle ready for sharing operations instantly.

Technical Information

- > LTE Cat M1 / NB-IoT with EGPRS fallback
- > LTE Cat-1 (optionally)
- > GNSS module supporting GPS, GLONASS, Galileo, Baidoo
- > "Bluetooth Low Energy" (BLE) v4.2 (v5 ready)
- > 3-axis acceleration sensor
- > 1x high speed CAN (ISO11898)
- > Discrete wakeup input
- > Discrete output to drive bike lock
- > Internal "Backup Battery" (BuB) for 168 hours in sleep mode
- > Operating voltage 5.5 - 14.4V DC
- > IP65 protection class
- > Dimensions: 80 x 40 x 20mm (incl. antennas and BuB)

Benefits

- > Versatile IoT gateway with worldwide LTE connectivity
- > Optimized for micro-mobility vehicles and sharing applications
- > Directly retrieve your vehicle data via MQTT protocol
- > Secure and TLS-encrypted data transfer to your cloud
- > Scalable / load-balancing
- > Firmware "Over the Air" (FOTA)
- > Integrated "Backup Battery"

