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"