



piBike-HMI



Important characteristics

- Innovative fleet management and access solution for bicycles and bike sharing systems
- Smart bike-on-board computer with Bluetooth 4.0 LE, RFID reader, E-Paper display and CAN/LIN interface
- GPS module allows the location of the vehicles
- Ideal solution for:
 - Companies
 - Public transport, cities and Communities



Overview

The HMI with the e-paper is an innovation. Directly at the wheel occurs on the graphical display the dialog with the user. Interesting informations are displayed on the display, if the vehicle is in the waiting mode. Also in the night and even with direct sunlight always perfect readable. Without energy consumption.

The on-board computer has an RFID-Lesegerät, GPS-Ortungssystem, GPRS data transmission to the operator portal, data interfaces to the bike bus and Bluetooth Low Energy. Fulfilled requirements, in order to integrate available bicycles on the maret easily and cost-effectively into rental systems.

Technical specifications

Basics

Supply voltage	via dynamo or 6 - 60 V DC
Battery	Internal rechargeable battery
Sensors / Other	Motion sensor with compass, brightness sensor, Real-time clock, temperature monitoring, direct control of the piBike lock
Connection sockets	1 x supply voltage / bicycle interface 1 x supply management for piBike-Lock

Interfaces

User interfaces	illuminated E-Paper display, RFID reader (13,56 MHz), 4 buttons, LEDs (4 x keyfeedback, 2 Indicators), Buzzer, Bluetooth 4.0 Low Energy
Radio interfaces	GPS tracking system (GPS + Glonass), Bluetooth Low Energy 4.0, GPRS broadcasting, Low Power RF transmission modul (868MHz)
Bicycle interfaces	supports CAN / CANopen - EnergyBus, LIN
EnergyBus	EnergyBus 2.0, CANopen / EnergyBus standard CiA 454