ebikemotion®

Color Display ONE
All in One computer for e-bikes

2,2" Color Screen

ARM Cortex A7 & Linux OS

One of the more important elements of an eBike is undoubtedly the human interface, and it's the first thing the user interacts with. Nevertheless, it has not been given enough attention, till now.

Ebikemotion® is shattering the market with its new range of displays, which emphasize 3 things. EFFICIENCY, DESIGN and POWER. The efficiency of a display comes from being able to see it in high contrast conditions (outside and with back-lighting). The design should be attractive, but without forgetting the importance of showing the data efficiently, so the right data is shown at the right time. The power comes from using an ARM Cortex A7 processor, running nothing less than Linux, allowing us to run graphical applications unlike anything seen in the sector or in modulars.

Target Applications:

- Control electric bicycles based in CAN BUS or SERIAL. Specially for:
  - . Smart City e-bikes
  - . Smart e-MTB
  - . e-perfomance

- Connection by Bluetooth® to APPs

Features

- Smart Control
- ebike Status
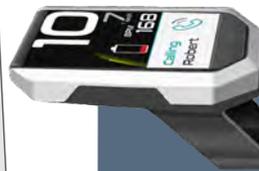- Flexibility
- Notifications
- Ergonomic
- Bluetooth Communication

NXP

MICROCHIP
Bluetooth® Technology

The user should feel attracted to the design of the eBike, but when they look at them closely, the display and the remote control should be able to meet all the user's expectations.

Ebikemotion gives you everything you could want from a display. Its Freescale ARM Cortex A7 processor, with 256 MB of RAM and 4 GB of persistent storage allows it to run QT based graphical applications on top of LINUX on a 2.2" 240 x 320 pixel color screen, specially designed for viewing outdoors and in the most difficult lighting. It also includes a USB-OTG port which allows the equipment and other CAN BUS components to be updated, as well as charging external devices (phones). On top of the USB and CAN communications, it comes factory fitted with Bluetooth 4.2 and optionally with WiFi. It has a light sensor and an accelerometer.

brose Compatible

3 Optional Holders

Transflective LCDs?

The transflective screen works better the more light there is outdoors, but also when fully back-lit it is absolutely clear and sharp.

There are many displays on the market, but few of them are truly easily viewed outdoors, even fewer in color and with built-in processors, none at all.

HEADQUARTERS

EBIKEMOTION TECHNOLOGIES Soc. Lim
C/ Orfebres, 10 – 34004
(Palencia, Spain)

phone: (+34) 810 101 201
email: hello@ebikemotion.com
internet: www.ebikemotion.com

RESEARCH CENTERS

BISITE R+D Group
(University of Salamanca)

MAHLE ELECTRONICS SA
(Valencia - Spain)
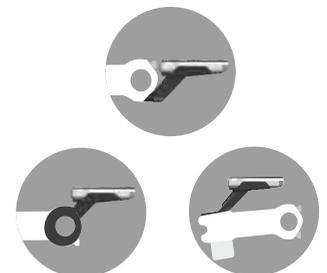
STAGEMOTION SL
(Palencia - Spain)

PRODUCTION CENTER

MAHLE NAGARES S.A.
(Motilla del Palancar - Spain)

MAHLE ELECTRONICS VALLADOLID SA
(Valladolid - Spain)

e-bike REMOTE CONTROL

more info: ebikemotion.com

ebm ♥ bikes

Product Features & Specifications

- Based in NXP Freescale processor (ARM cortex A7 architecture)
- LDDR3 RAM Memory 256M (optional 512M)
- eMMC 4G (Embedded Flash Memory)
- Bluetooth® Smart 4.2 BLE compliant (Rn4871)
- 3-Axis Accelerometer
- OS Linux (QT based Application)
- USB-OTG (Power Supply 500 mAh and Diagnosis)
- 1 connection for remote control (3 buttons remote)
- 1 connection for BUS (CAN)
- 6V to 17V Power Supply range
- Estimated consumption (1W)

- Color Screen 2,2"
- Transflective TFT LCD (LTPS) (for outdoor view)
- Active Area (H x V) 33.84 x 45.12
- Number of Dots (H x V) 240 x RGB x 320
- Dot Pitch (H x V) 0.047 x 0.141
- Color Numbers 65535 (bit: R=5, G=6, B=5)
- Outline (H x V x T) 40.6 x 56.6 x 2.91
- Backlight (Night ilumination) with Light Sensor
- LCD + PCB size: 57,00 x 40,60mm

Special Features Display ONE in connection with SmartPhone

- Splash screen based in Video (customizable)
- Different color for different assistance levels
- Navigation information based in Smartphone APP (Maneuvers, distance, ETA, Range...)
- Smartphone Notifications (Calls, SMS, WhatsApp, Notifications of third APPs)
- eBike System Alerts
- Advanced Settings

eBike Monitoring   SmartPhone Notifications   Guided Navigation

iWoc® remote is designed to be placed in both sides of the handlebar and oriented to both sides attending your design necessities

Designed & Manufactured in Spain (EU)

Display ONE **+** iWoc TRIO

Or

Display ONE — 3 Buttons on Board

The display supports a 3-button keypad on its own board and the iWoc® TRIO remote control as an optional extra, a compact remote control with 3 buttons and an RGB light, that uses a novel notification system based on a vibration motor (patent pending), that responds to presses and notifications with various different vibrations and RGB light colors, allowing the user to be aware of any active warnings at all times, without having to look at the display. So there is a version with a keypad on the display (for road handlebars) and one with a separate keypad (for flat handlebars).

fully ergonomic iWoc® REMOTE

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