

# MC Mobile

## Technical data:

- Wheel diameter: 66 mm
- Wheel distance: 175 mm
- Max. RPM: 60
- Max. RPM under load: 52
- Max. torque: 180 Ncm
- Segments of Wheel Encoder: 120
- Supply Voltage 12V (motor)
- DC/DC Converter 12V/5V

## Semiconductors:

- LPC1778 FBD 144 Cortex M3 (CPU)
- LD1117S33TR 3,3V Regulator
- Toshiba T6963C LCD controller Display 240x128
- L298 (dual full-bridge driver)
- RW-1205S 5V DC/DC Converter

## Sensors:

- Ultrasonic: SRF05
- Infrared: GP2D120
- Wheel encoder: GP1A30R
- Pushbuttons
- Compass module: CMPS10
- RC5 IR receiver TSOP 31236

## Actuators:

- Motor: RB35 12V 1:100
- LED: OSRAM-LS\_M67K ROT
- Display: EA DIP 240-7
  - 240x128 pixel using controller T6963C