

Overall circuit design

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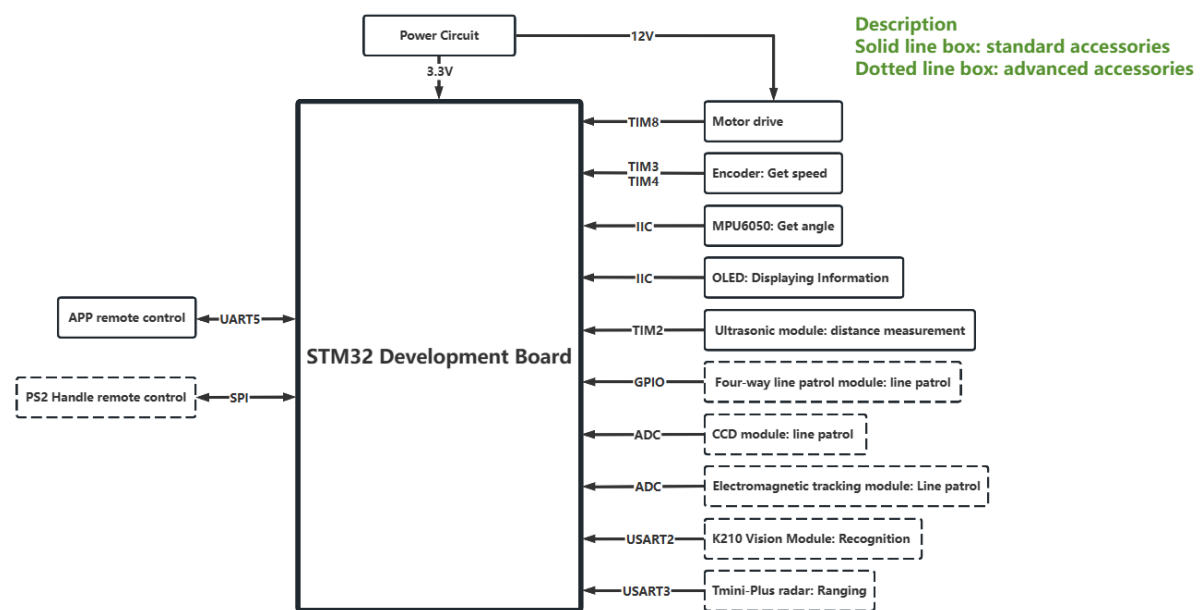
Circuit system block diagram

Main components

The tutorial mainly introduces the communication and components between the module and the development board.

Circuit system block diagram

According to the configuration of the car, it can be simplified into the following circuit system block diagram:



Main components

According to the function of the entire balance car, we will introduce the main circuit components in the following tutorials:

Minimum single-chip microcomputer system: drive the module and process the module data to achieve the required functions;

Serial port circuit: communication between the host computer and the peripheral module;

Power supply circuit: provide power supply voltage to the development board;

Motor drive: output voltage drives the motor to rotate;

Posture detection: obtain the angle and angular velocity of the car.