

# Introduction to MSPM0 Robot Expansion Board

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## 1. Product Introduction

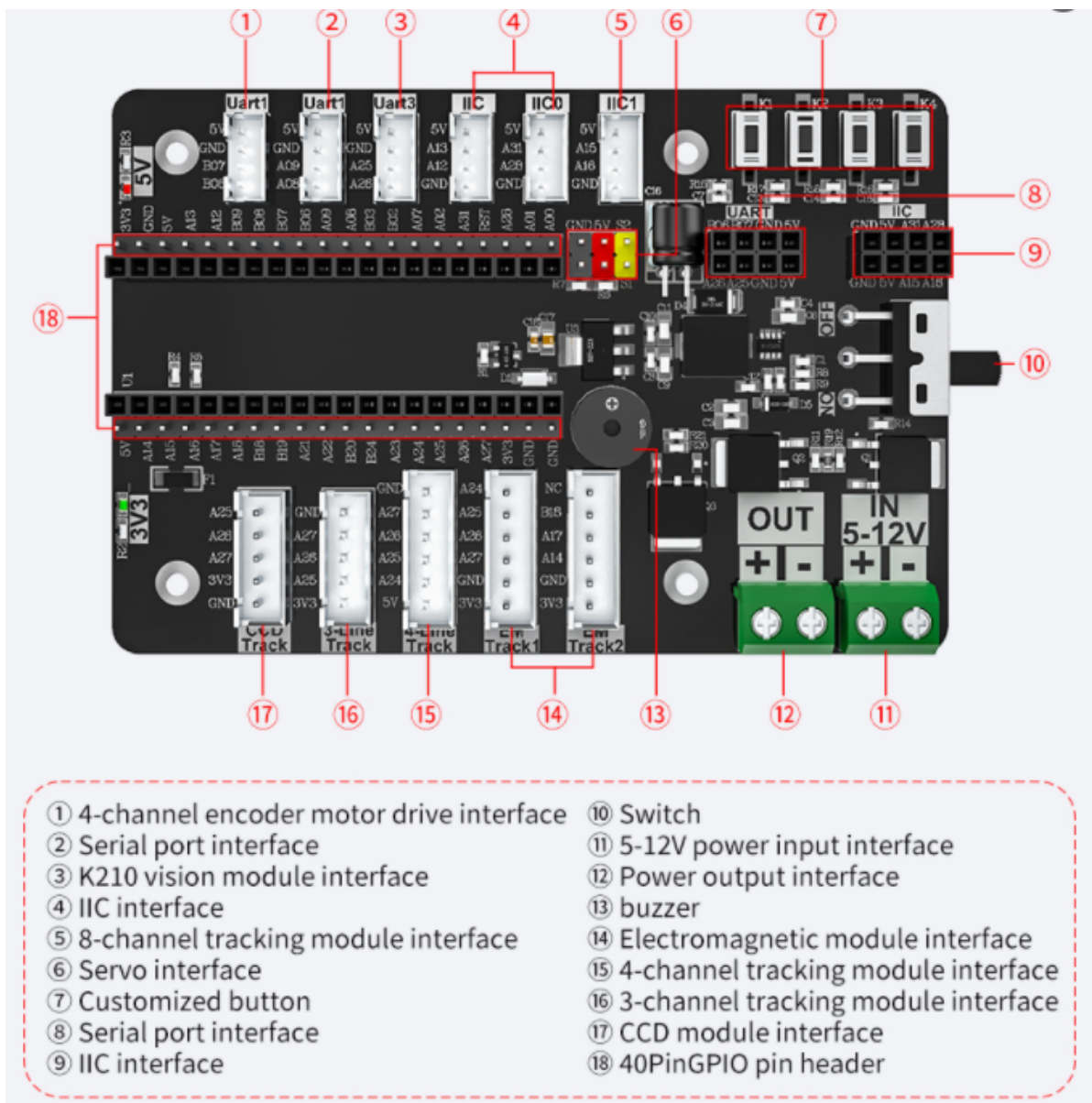
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The MSPM0 Robot Expansion Board is an expansion board designed specifically for the MSPM0G3507 development board of Yabo Intelligent. Please pay attention to the direction of the MSPM0G3507 development board when connecting, and do not plug it in reverse.

This expansion board supports the connection of a variety of competition-level accessories and is dedicated to electronic design competitions. It supports 5-12V wide voltage power supply and power output. It has 40pin GPIO pin headers, buzzer, four custom buttons, power reverse connection protection circuit, and supports DIY expansion connection. It has reserved expansion interfaces for three-way patrol, four-way patrol, eight-way patrol, CCD visual patrol, and electromagnetic patrol, all of which are reverse connection interfaces. It also has reserved IIC and serial port expansion interfaces, which support the connection of Bluetooth 5.0 and OLED display, as well as two PWM servo interfaces.

## 2. Pin distribution diagram

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### 3. Adapter core board

This expansion board is designed for the Yabo Smart MSPM0G3507 development board. If you use a development board of other brands or models, please make sure that the key pins such as 5V, 3.3V, GND and other key pins match this expansion board, otherwise the pins will be incompatible and the development board will be damaged.

