D-Robotics

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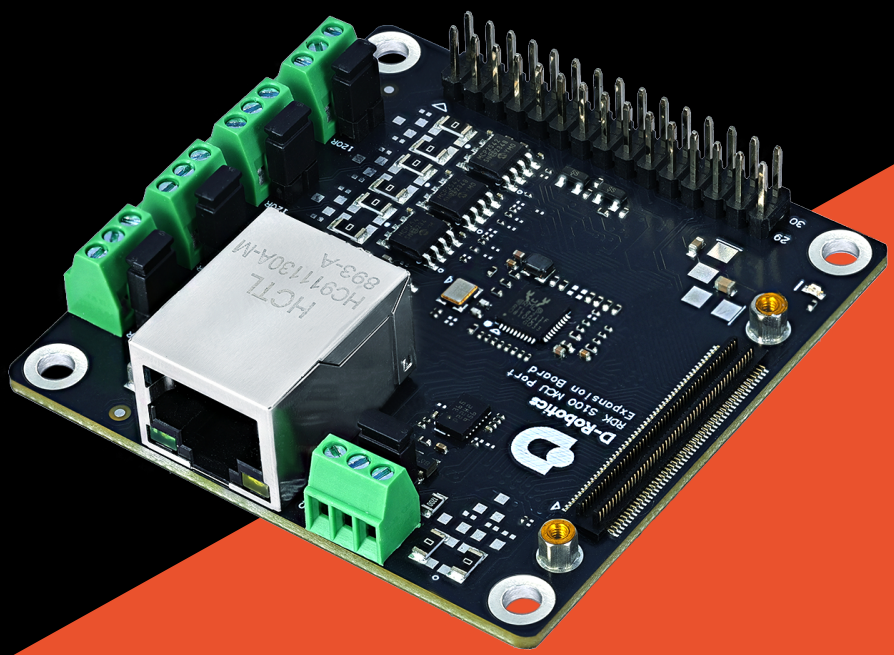
RDK S100
MCU Port Expansion Board



V1.1

2025-10

D-ROBOTICS HOLDING LIMITED

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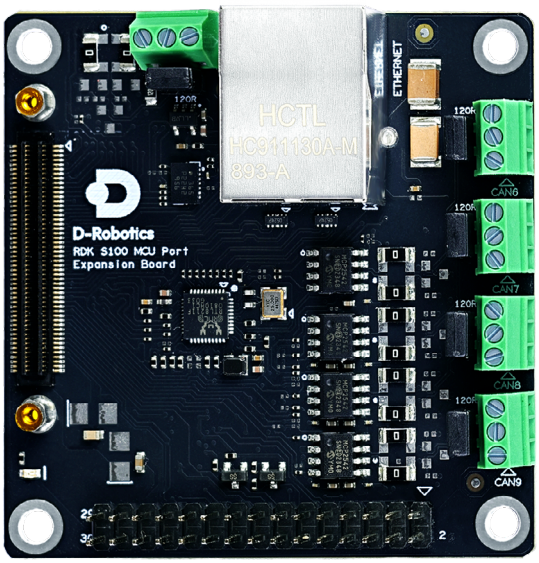
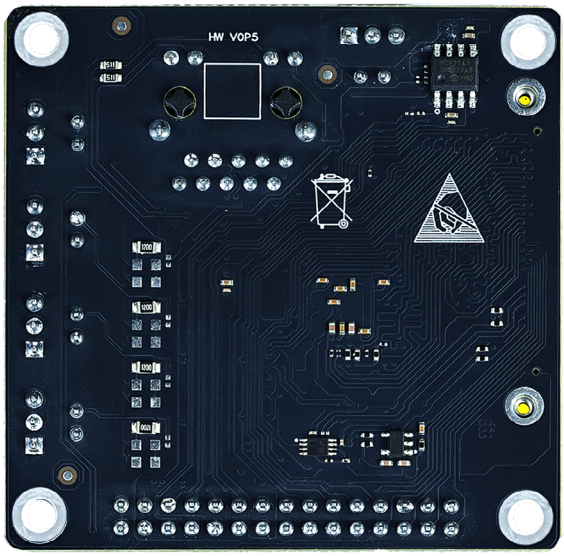
D-Robotics RDK S100 MCU Port Expansion Board





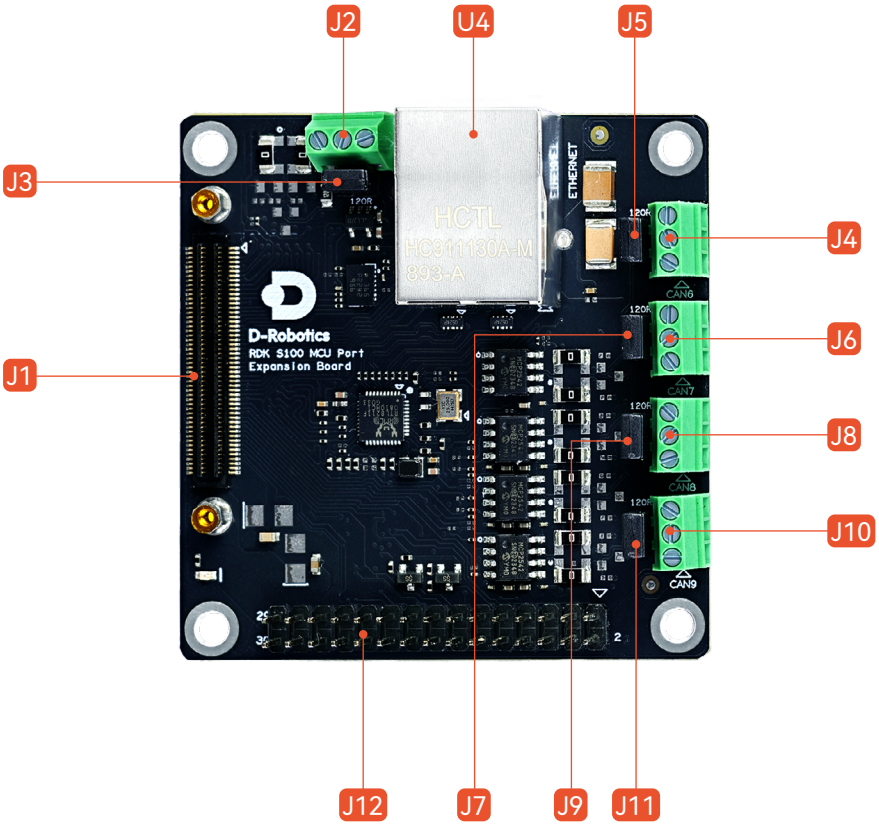
OVERVIEW

The D-Robotics RDK S100 MCU Port Expansion Board is an accessory designed for the RDK S100 Developer Kit. It extends the MCU Domain interfaces of the RDK S100, allowing users to connect peripherals for testing and development.

SPECIFICATIONS

Interface	5 x CAN FD
	1 × 30-pin connector (up to 7 × ADC, 2 × I^2C, 2 × SPI)
	1 x RJ45 Port
Onboard Module	IMU：Bosch Sensortec BMI088
Operating Temperature	0℃ ~45℃

SPECIFICATIONS



No.	Function	No.	Function
J1	100-Pin connector for MCU Expansion Board	J6	CAN7 interface
J12	30-Pin connector	J7	120 Ω termination jumper for CAN7
U4	MCU domain Gigabit RJ45 port	J8	CAN8 interface
J2	CAN5 interface	J9	120 Ω termination jumper for CAN8
J3	120 Ω termination jumper for CAN5	J10	CAN9 interface
J4	CAN6 interface	J11	120 Ω termination jumper for CAN9
J5	120 Ω termination jumper for CAN6		

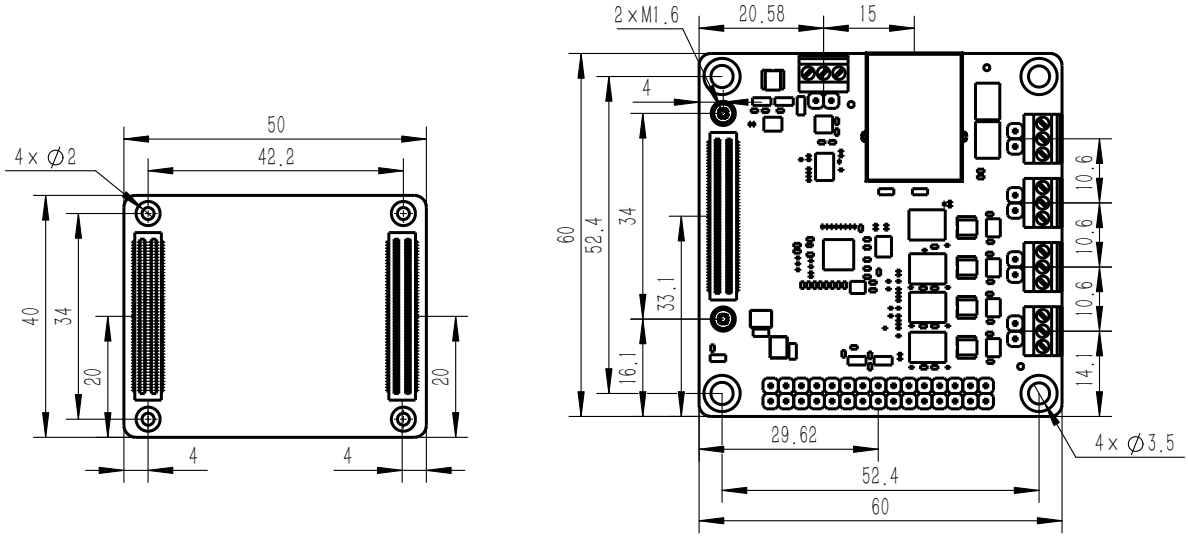
Contents List

MCU Port Expansion Board	FPC Cable	Accessory Pack

For detailed specifications, please visit : https://developer.d-robotics.cc/en

SPECIFICATIONS

Dimension



WARNINGS

To avoid malfunction or damage, please observe the following precautions:

- When using an external power supply, please ensure it complies with the regulations and standards of the relevant region.
- This product should be used in a well-ventilated environment. If used in an enclosed space, proper heat dissipation measures must be taken.
- During use, place this product on a stable, flat, and non-conductive surface.
- Connecting incompatible devices to this product may cause damage, and such damage will not be covered by warranty or repair service.
- All peripheral devices used with this product must comply with the applicable national standards and clearly ensure that they meet relevant safety and performance requirements.
- All cables and connectors used with this product must have adequate insulation to meet the necessary safety standards.

SAFETY INSTRUCTIONS

To prevent malfunction or damage, observe the following precautions:

- Do not expose the product to water, moisture, or conductive surfaces while operating.
- Keep away from heat sources and ensure ambient temperature is within normal range.
- Avoid mechanical or electrical stress on the PCB and connectors during assembly.
- Do not touch the PCB or edges while powered to reduce the risk of electrostatic discharge (ESD).

https://developer.d-robotics.cc