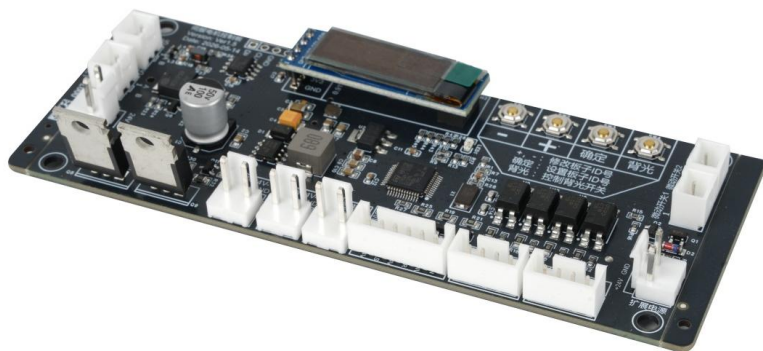




Stepper/Servo Motor Bidirectional Motion Control Board

Features

- 1 motor power and control signal output.
- 4 photoelectric sensor inputs and 2 microswitch sensor inputs, with support for automatic port allocation.
- Customizable motor operating parameters, with power-off data retention.
- Screen display of motor configuration and operating parameters.
- Supports remote online firmware upgrade for function iteration and bug fixing.
- 2 RS-485 communication interfaces, supporting the Modbus fieldbus protocol, with a modifiable Modbus slave address.
- Supports cascading networking of control boards.

Introduction

This product is a stepper/servo motor motion controller based on RS-485 + Modbus communication. Its core capability is bidirectional motion control of stepper and servo motors in pulse mode, such as start, stop, forward rotation, reverse rotation, homing, positioning to the top, absolute position, relative position, etc. It is also equipped with external power interfaces, such as motor power, sensor power, external device power, motor enable, LED indicators, display screen, etc., and supports independent on/off control via commands.

It is suitable for various industrial, medical, and civil equipment, such as industrial automation production lines, smart agriculture, smart warehousing and logistics, smart buildings and security, laboratory automation, and medical equipment.

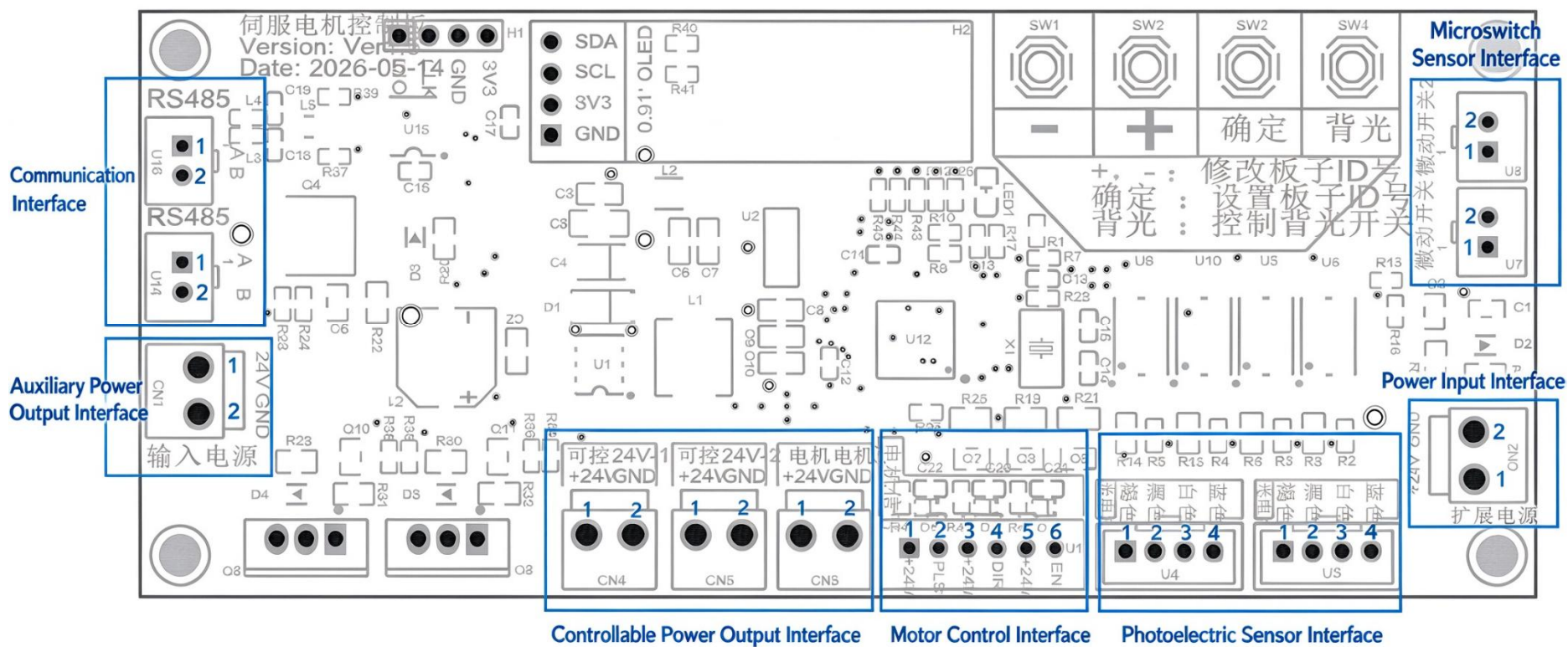
Electrical Performance

Input Voltage: DC 24V

Input Power: Max. 120W

Input Current: Max. 5A

Interface Description





Power Input Interface

No.	Definition	Description
1	VCC	Power positive; input voltage range 24V $\pm$ 5%.
2	GND	Power negative.

Communication Interface

No.	Definition	Description
1	A	RS-485 bus receiver non-inverting input / transmitter non-inverting output; input voltage range: -15V to 15V.
2	B	RS-485 bus receiver inverting input / transmitter inverting output; input voltage range: -15V to 15V.

Motor Control Interface

No.	Definition	Description
1、3、5	+24V	24V voltage output, controllable on/off.
2	PLS	Step pulse signal; controls motor speed or angle. NPN open collector.
4	DIR	Direction level signal; controls motor rotation direction. NPN open collector.
6	EN	Enable signal; controls whether the motor is powered and locked. NPN open collector.

Controllable Power Output Interface

No.	Definition	Description
1	+24V	24V voltage output, controllable on/off.
2	GND	Power negative.



Photoelectric Sensor Interface

No.	Definition	Description
1	+24V	24V voltage output.
2	DARK	Light-blocked ON: input signal is low; otherwise high; pull-up input.
3	LIGHT	Light-received ON: input signal is low; otherwise high; pull-up input.
4	GND	Power negative.

Microswitch Sensor Interface

No.	Definition	Description
1	CLOSE	Switch closed: input low; otherwise high; pull-up input.
2	GND	Power negative.

Auxiliary Power Output Interface

No.	Definition	Description
1	+24V	24V voltage output
2	GND	Power negative.



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Product Dimensions

