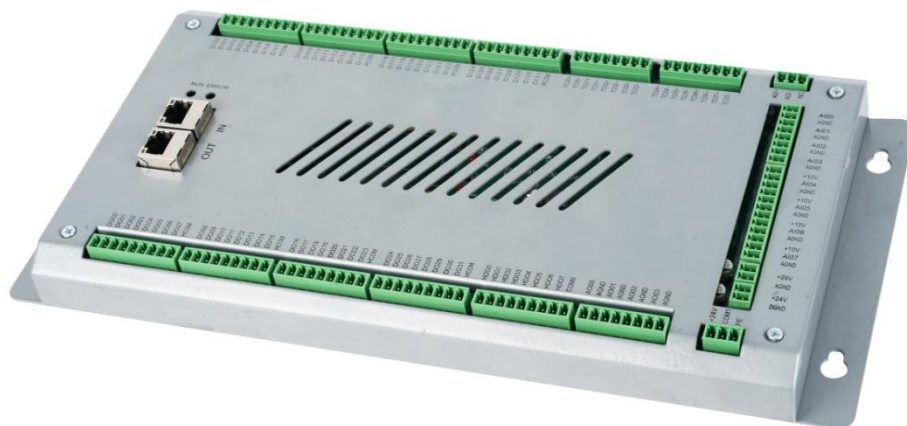




Industrial IoT Acquisition & Control Board

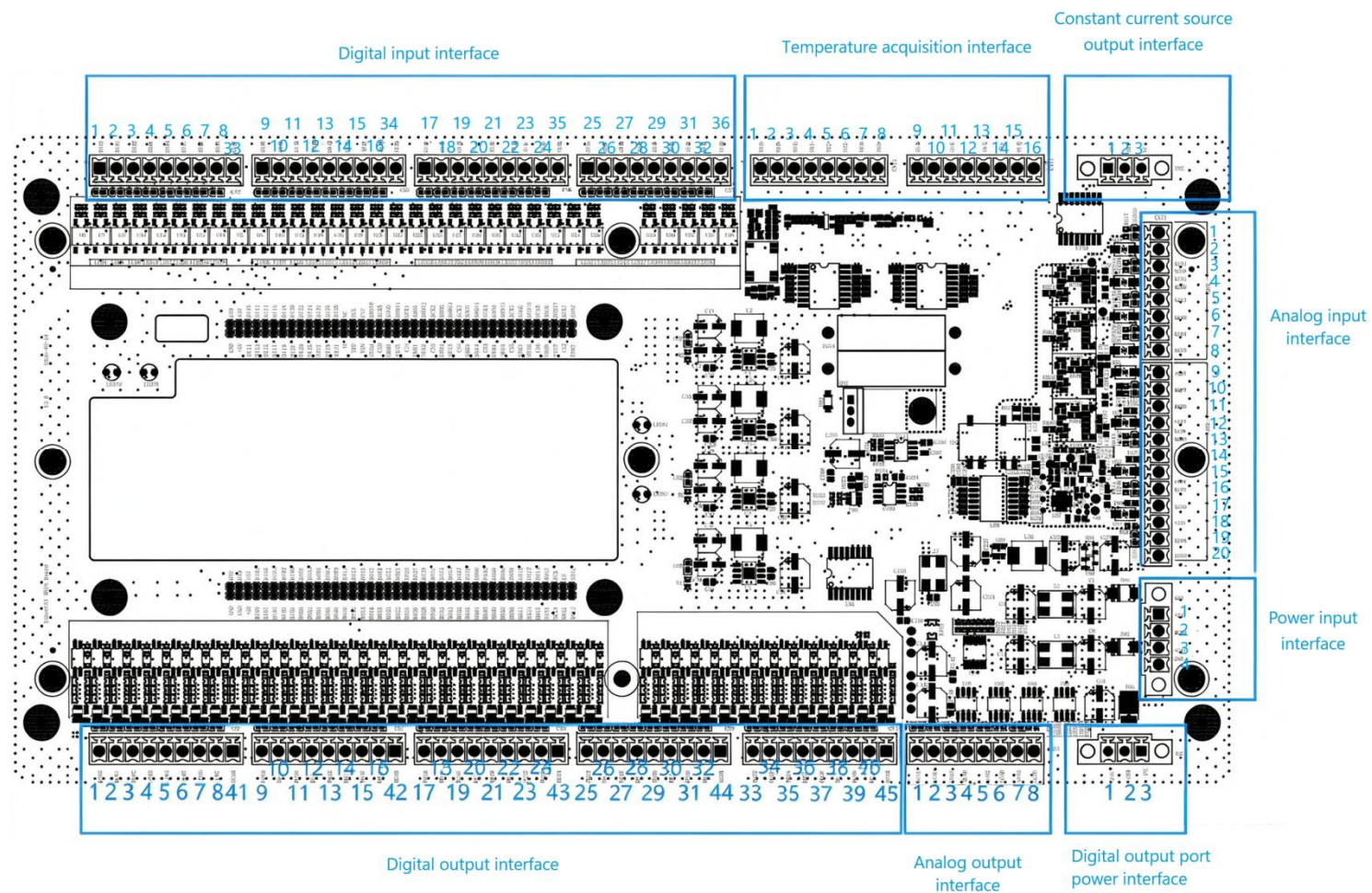
Features

- Provides 32 digital input interfaces.
- Provides 40 digital output interfaces.
- Provides 8 analog input interfaces.
- Provides 4 analog output interfaces.
- Provides 8 temperature acquisition interfaces.
- Provides 1 constant current source output interface.
- Supports EtherCAT fieldbus and programming control.
- Supports IEC 61131-3 standard ST language, complying with an international-standard development framework.

Description

This industrial controller adopts an integrated solution, integrating commonly used industrial control modules, and is specifically designed for complex automation scenarios. It combines signal conditioning, data acquisition, logic control, field communication, and human-machine interaction into one unit. It is widely suitable for diverse industries such as industrial automation production lines, smart agriculture systems, and intelligent building management and control.

Interface Description





Power input interface

No.	Definition	Description
1、 3	+24V	Power positive, input voltage range 24V±5%
2	AGND	Analog ground
4	GND	Power negative

Digital output port power interface

No.	Definition	Description
1	+24V	Digital output port pull-up power supply
2	COM	Common port
3	PE	Protective ground connected to the enclosure

Digital input interface

No.	Definition	Description
1-32	DI00-DI31	Digital input, Channel 0 to Channel 31
33、 34、 35、 36	PCOM	Common port

Digital output interface

No.	Definition	Description
1-40	D000-D039	Digital output, Channel 0 to Channel 39, open-drain output
41、 42、 43、 44、 45	HCOM	Common port



Analog input interface

No.	Definition	Description
1、3、5、7、10、13、16、19	AI01 – AI08	16-bit 8-ch analog voltage input, -10V to 10V
2、4、6、8、11、14、17、20	AGND	Analog ground
9、12、15、18	+10V	Analog power output, 10V

Analog output interface

No.	Definition	Description
1、3、5、7	A000 – A003	16-bit 4-ch analog voltage output, -10V to 10V
2、4、6、8	AGND	Analog ground

Constant current source output interface

No.	Definition	Description
1	AOI+	Constant current source output positive, current range 0A to 1A
2	AOI-	Constant current source output negative, current range 0A to 1A
3	NC	Not connected

Temperature acquisition interface

No.	Definition	Description
1、3、5、7、9、11、13、15	T00+ – T07+	8-channel RTD (resistance temperature detector) input, RTD signal positive
2、4、6、8、10、12、14、16	T00- – T07-	8-channel RTD (resistance temperature detector) input, RTD signal negative



KFLY ELECTRONIC TECH. (SHANGHAI) CO.,LTD.

Product dimension drawing

