Solidot Fieldbus Solutions

Product Catalog V1.3

Nanjing Solidot Electronic Technology Co., Ltd.

CONTENTS

COMPANY INTRODUCTION

The core team of Solidot Technology was established in 2012, and developed the domestic slice I/O module the following year. In 2018, Solidot Technology focused on the research and development of bus I/O technology and products. It has completed multiple rounds of equity financing, was successfully selected into the list of unicorn enterprises to be cultivated in Nanjing, and established the Nanjing Automation Bus I/O Module Control Engineering Technology Research Center. Related products have been widely used in 3C, new energy, logistics, welding, water treatment, smart buildings and other industries.

At present, the Solidot Technology Bus I/O R&D team has nearly 100 people, including more than 10 industry experts, with complete system integration testing, EMC and environmental testing and aging testing laboratories; it has its own 5,000 square meter bus I/O production base, equipped with a 100,000-level dust-free fully automatic SMT production workshop, an automated assembly and testing workshop, and an intelligent logistics warehouse.

2012 Year
Team Building

100+
Intellectual property

9000+
Domestic transaction customers

600+
Overseas transaction customers

DEVELOPMENT HISTORY

2024 Solidot has launched the wiring dis tributed I/O XBF series pr oducts with simplied wiring and has been recognized by the "Nanjing Automation Bus I/O Module Control Engineer - ing Technology Research Center."

2023 Released X-bus2.0 backplane p rotocol;
Launched XB6S, a new g eneration of plug-in remote I/O;
Released Protocol Conversion G ateway to support multiple p rotocols.

2022 Completed multiple rounds of financing and received favor from industrial capital;
Released slice multi-channel temperature controller, which supports various bus protocols.

2021 Included in the list of unicorn enterprises cultivated in Nanjing;
Released the first slice stepper driver in China;
Can support various bus protocols.

2020 Awarded high-tech enterprise certification;
Released horizontal I/O with multiple protocol support.

2019 Completed Pre-A round of financing led by well-known government capital;
Released X-bus1.0 backplane protocol;
based on which XB6 series high performance slice I/O was released.

2018 Went through business r eorganization;
Released Vertical I/O, supporting multiple p rotocols;
Completed angel funding r ound.

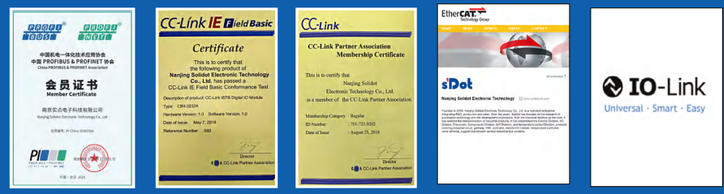
CERTIFICATIONS AND PATENTS

Certifications

Patent Certificates

Computer software copyright registration certificates

Association membership certificates



INDUSTRY APPLICATIONS

3C | Lithium | Photovoltaic | Intelligent Manufacturing | Logistics | Automotive | New Energy | Petrochemicals | Power Energy

EtherCAT PROFINET PROFIBUS EtherNet/IP IO-Link Modbus TCP CC-Link CC-Link IE Field Basic CC-Link IE TSN MECHATROLINK DeviceNet

Slice I/O

Adapt to multiple bus protocols and have rich functional modules. Products have diagnostic, alarm, and abnormal logging functions, which can automatically diagnose bus problems without the need for module by module troubleshooting. The product has undergone strict EMC testing, with strong anti-interference ability and refusal to disconnect.

Vertical Type I/O

The product has a volume of 102x72x25mm, occupies a small space, and runs quickly. Bullet type pluggable terminals for quick wiring. Supports multiple bus protocols, compatible with most manufacturers' main stations such as Siemens, Omron, Mitsubishi, etc., with simple configuration and cascading capability.

Horizontal Type I/O

The height of the product is only 35mm, occupying little space, and can be flexibly adapted to complex industrial site environment. The innovative channel indicator design is adopted as the indicators are placed close to the channels, channel status is displayed intuitively and clearly, facilitating detection and maintenance. Support a variety of bus protocols, adaptable to most manufacturers' master stations such as Siemens, Omron, Mitsubishi, etc.

IO-Link

Up to IP67 protection level, suitable for harsh working environment. IO-Link v1.1 standard version is adopted. PROFINET, EtherCAT, EtherNet/IP, CC-Link IE Field Basic and other bus protocols are supported. The LED indicator provides channel-level protection and diagnostics.

Valve Terminal

Strong universality, compatible with mainstream solenoid valve models such as SMC, FESTO, CKD, AirTAC, etc., supporting multiple bus protocols. At the same time, the base plate can be customized according to the electromagnetic valve model and number of positions required by the customer.

Motion Control

Offering a rich range of motion control products, including multi-protocol stepper driver modules, pulse positioning modules, PWM output modules, encoder counter modules and many other highly competitive products

Protocol Gateway

The protocol gateway supports multiple bus protocol conversions and can realize communication between different bus protocols.

Industrial Switch

Featuring unmanaged industrial Ethernet switches and EtherCAT junctions, adopting high-reliability design with built-in multiple protection mechanisms. Fanless and low-power, suitable for industrial environments with stringent EMC requirements.

XB6S product disassembly diagram

Coupler protocol type
- PROFINET
- EtherCAT
- EtherNet/IP
- CC-Link IE Field Basic
- Modbus TCP
- CC-Link IE Field Basic
- CC-Link
- CC-Link IE TSN

Coupler (with integ-rated power supply)

- 32, 16, 8-channel digital input/output
- 12 relay outputs

Digital module

- 8, 4 analog inputs Input/output, support voltage/current type
- 8, 4-channel temperature acquisition, supporting thermal resistors/ thermocouples/ resistance

Analog module

- 4-channel PTO pulse output module
- 2-channel incremental encoder counting module
- 2-channel absolute encoder counting module
- 8-channel pulse counting & frequency measurement module

Motion control module

- Expand system power supply and increase the number of expansion modules

Extension power module

- RS485/232/422 interface
- Modbus RTU/ASCII
- Freeport

Serial communication module

- 32digital input/output
- Packages MIL Connector Cables and Terminal Blocks

MIL Connector module

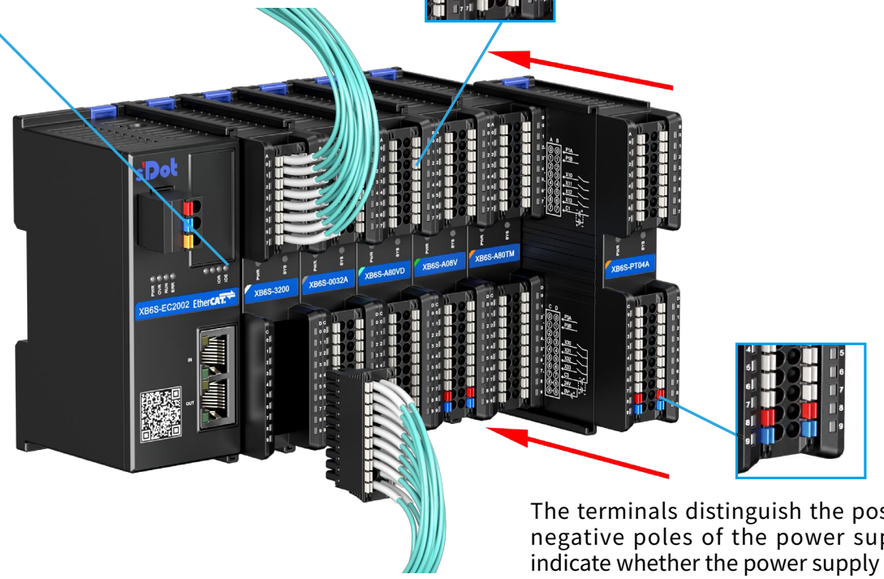
- Backplane bus termination

Terminal cover

Product Advantages

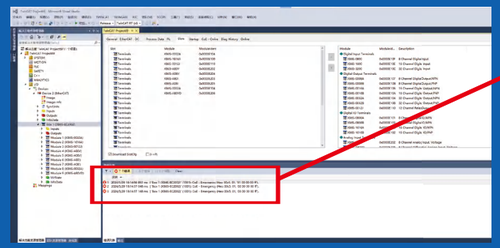
Separate the upper and lower wiring to increase the line Slot utilization.

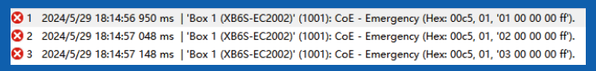
Channels and indicator lights correspond one to one, and the communication status is clear at a glance.



The terminals distinguish the positive and negative poles of the power supply, and indicate whether the power supply is missing or reversely connected.

The XB6S series products have diagnostic, alarm, and exception log recording functions, which can automatically diagnose bus problems without the need to check each module one by one.



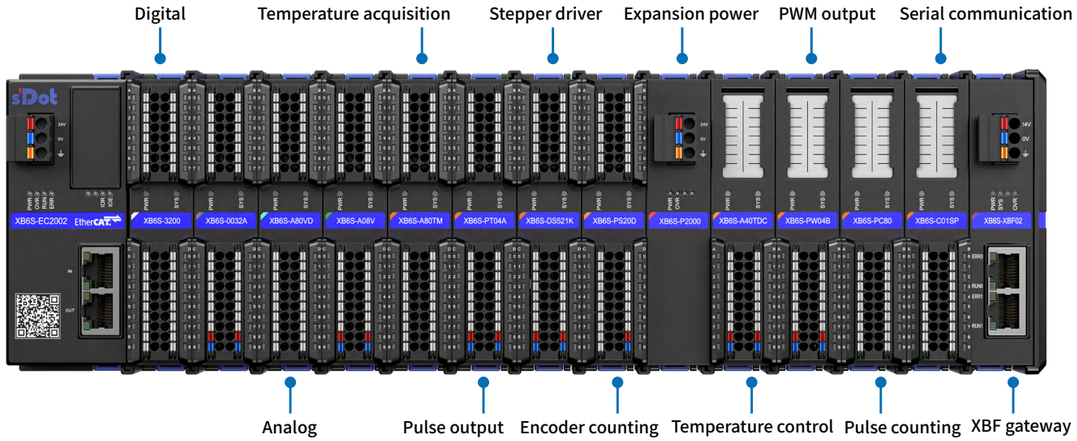


No need to check bus abnormal modules one by one

Automatic diagnosis directly displays alarm information

- **Real-time monitoring** Channel Status
- **Visualization** Network
- Easy **Firmware Upgrade**

Adapt to various bus protocols, with rich functional modules and flexible combination



The products have been strictly EMC testing, super strong anti-interference, no disconnection

ESD (Electrostatic discharge Immunity) Contact Discharge IEC 61000-4-2

Peer standard: ±4kV （Performance criteria B)

XB6S standard: ±8kV （Performance criteria B)

EFT/B （Electrical Fast Transient/Burst Immunity) IEC 61000-4-4

Peer standard: ±2kV （power cable Performance criteria B)

XB6S standard: ±4kV (power cable Performance criteria A)

Peer standard: ±1kV (signal cable Performance criteria B)

XB6S standard: ±2kV (signal cable Performance criteria A)

SURGE (Surge immunity) IEC 61000-4-5

Peer standard: ±0.5kV (cable to cable Performance criteria B)

XB6S standard: ±1kV (cable to cable Performance criteria A)

Peer standard: ±0.5kV (cable to ground Performance criteria B)

XB6S standard: ±2kV (cable to ground Performance criteria A)

Performance criteria A:
When there is interference, the module works normally within the preset range;
Performance criteria B:
When there is interference, the module performance is reduced within the preset range. When the interference disappears,Can be automatically recovered.

XB6S Naming Rule

COUPLER

XB 6S - EC 20 02

BACKPLANE BUS
XB：X-bus

PRODUCT LINE
6：Slice I/O
S：Strengthen，Upgrades

FIELDBUS INTERFACE

POWER SUPPLY TYPE
20：2A

NETWORK PORTS
02：dual network port

DIGITAL

XB 6S - 16 16 A

BACKPLANE BUS
XB：X-bus

PRODUCT LINE
6：Slice I/O
S：Strengthen，Upgrades

DIGITAL INPUT
00、08、16、32

DIGITAL OUTPUT
00、08、12、16、32

INPUT AND OUTPUT POLARITY
A ：NPN
B ：PNP
Blank：NPN&PNP
J ：Relay

ANALOG

XB 6S - A 8 0 V D

BACKPLANE BUS
XB：X-bus

PRODUCT LINE
6：Slice I/O
S：Strengthen，Upgrades

I/O MODULE TYPE
A：Analog

DIGITAL INPUT
Analog：
0、4、8

DIGITAL OUTPUT
Analog：
0、4、8

INPUT AND OUTPUT POLARITY
V：Voltage type
I：Current type
TM：RTD/TC/Resistor
SG：Strain, Resistance Bridge

SIGNAL TYPE
D: Differential signal
Default: single-ended signal

XB6S module model overview

Coupler		
1	XB6S-EC2002	EtherCAT Bus coupler (integrated power supply, with cover)
2	XB6S-PN2002	PROFINET Bus coupler (integrated power supply, with cover)
3	XB6S-EI2002	EtherNet/IP Bus coupler (integrated power supply, with cover)
4	XB6S-MT2002	Modbus TCP Bus coupler (integrated power supply, with cover)
5	XB6S-CB2002	CC-Link IE Field Basic Bus coupler (integrated power supply, with cover)
6	XB6S-CL2002	CC-Link Bus coupler (integrated power supply, with cover)
7	XB6S-CT2002	CC-Link IE TSN Bus coupler (integrated power supply, with cover)
Digital Module		
8	XB6S-3200	32-channel digital input, input NPN/PNP compatible
9	XB6S-1616A	16-channel digital input, 16-channel digital output, input NPN/PNP compatible, output NPN type, 0.5A
10	XB6S-0032A	32-channel digital output, output NPN type, 0.5A
11	XB6S-1616B	16-channel digital input, 16-channel digital output, input NPN/PNP compatible, output PNP type, 0.5A
12	XB6S-0032B	32-channel digital output, output PNP type, 0.5A
13	XB6S-3200N	32-channel digital input, input NPN/PNP compatible, input filter default 3ms, MIL connector type
14	XB6S-0032AN	32-channel digital output, output NPN type, 0.1A, MIL connector type
15	XB6S-0032BN	32-channel digital output, output PNP type, 0.1A, MIL connector type
16	XB6S-1600	16-channel digital input, input NPN/PNP compatible
17	XB6S-0016A	16-channel digital output, output NPN type, 0.5A
18	XB6S-0016B	16-channel digital output, output PNP type, 0.5A
19	XB6S-0800	8-channel digital input, input NPN/PNP compatible
20	XB6S-0008A	8-channel digital output, output NPN type, 0.5A
21	XB6S-0008B	8-channel digital output, output PNP type, 0.5A
22	XB6S-0012J/6	12-channel relay output, 2A
Analog Module		
23	XB6S-A80VD	8-channel analog voltage input, differential signal, ±0.1% accuracy, multiple adjustable ranges
24	XB6S-A80ID	8-channel analog current input, differential signal, ±0.1% accuracy, multiple adjustable ranges
25	XB6S-A80V	8-channel analog voltage input, single-ended signal, ±0.1% accuracy, multiple adjustable ranges
26	XB6S-A80I	8-channel analog current input, single-ended signal, ±0.1% accuracy, multiple adjustable ranges
27	XB6S-A40VD	4-channel analog voltage input, differential signal, ±0.1% accuracy, multiple adjustable ranges
28	XB6S-A40ID	4-channel analog current input, differential signal, ±0.1% accuracy, multiple adjustable ranges
29	XB6S-A40V	4-channel analog voltage input, single-ended signal, ±0.1% accuracy, multiple adjustable ranges

30	XB6S-A40I	4-channel analog current input, single-ended signal, ±0.1% accuracy, multiple adjustable ranges
31	XB6S-A08V	8-channel analog voltage output, single-ended signal, ±0.1% accuracy, multiple adjustable ranges
32	XB6S-A08I	8-channel analog current output, single-ended signal, ±0.1% accuracy, multiple adjustable ranges
33	XB6S-A04V	4-channel analog voltage output, single-ended signal, ±0.1% accuracy, multiple adjustable ranges
34	XB6S-A04I	4-channel analog current output, single-ended signal, ±0.1% accuracy, multiple adjustable ranges
35	XB6S-A80	XB6S I/O 8-channel current & voltage output module, supporting single-ended signal
36	XB6S-A08	XB6S I/O 8-channel current & voltage input module, supporting single-ended signal
37	XB6S-A40	XB6S I/O 4-channel current & voltage output module, supporting single-ended signal
38	XB6S-A04	XB6S I/O 4-channel current & voltage input module, supporting single-ended signal
Temperature Module		
39	XB6S-A80TM	8-channel of RTD and thermocouple input
40	XB6S-A40TM	4-channel RTD and thermocouple input
Functional module		
41	XB6S-PC80	8-channel pulse counting, 24V-NPN&PNP type, 100kHz
42	XB6S-PL20	2-channel incremental encoder counting, 24V-NPN&PNP type, 1MHz
43	XB6S-PL20D	2-channel incremental encoder counting, 5V- differential, 1MHz
44	XB6S-PS20D	2-channel SSI absolute encoder counting, 5V-differential, 2MHz
45	XB6S-PT04A	4-channel PTO pulse output, 24V-NPN type, 200kHz
46	XB6S-C01SP	1 channel RS485, RS232, RS422 three-in-one serial communication
47	XB6S-XBF02	X-bus Slave to X-bus Field Master Gateway Module
Other modules		
48	XB6S-P2000	Extended power supply
49	XB6S-C18_2	Common distribution module
50	TM40-32AE	32-position illuminated terminal block, NPN
51	TM40-32BE	32-position illuminated terminal block, PNP
52	TM40-1000-1	Terminal block supporting cable 1 meter (compatible with NPN input, NPN & PNP output)
53	TM40-3000-1	Terminal block supporting cable 3 meters (compatible with NPN input, NPN & PNP output)
54	TM40-5000-1	Terminal block supporting cable 5 meters (compatible with NPN input, NPN & PNP output)
55	TM40-1000-2	Terminal block supporting cable 1 meter (PNP input only)
56	TM40-3000-2	Terminal block supporting cable 3 meters (PNP input only)
57	TM40-5000-2	Terminal block supporting cable 5 meters (PNP input only)

Motion Control Modules

Pulse output module

1. Single pulse (pulse+direction) and double pulse (CW/CCW) modes can be set.
2. Each channel output is equipped with local positive limit, negative limit, home position and brake signal input.
3. Support trapezoidal acceleration and deceleration, return to zero, brake and other functions.
4. Supports safety mode, which can set the pulse output action of the module in case of network abnormality.

Product Model

XB6S-PT04A	4-channel PTO pulse output module

XB6S-PT04A

1. Based on EtherCAT protocol, support CiA402 axis
2. Supports distributed clock
3. 4-channel 5V differential high-speed pulse output, maximum frequency 400kHz
4. Supports local positive limit, negative limit, home, brake signal inputs

Product Model

EC4S-P04D	CiA402 4-axis pulse output module

EC4S-P04D

High speed digital output module with oversampling

1. Support EtherCAT
2. Support high speed output and PWM output modes with oversampling
3. Each channel has a driving force up to 1A
4. Built-in channel-level synchronization function, one-click synchronization of output via oversampling/PWM frequency and duty cycle

Product Model

EC4-PX02B	High speed digital output module with oversampling

EC4-PX02B

Pulse Counter Modules

EC4-P20D

XB6S-PL20

XB6S-PL20D

XB6S-PS20D

XB6S-PC80

Product Model

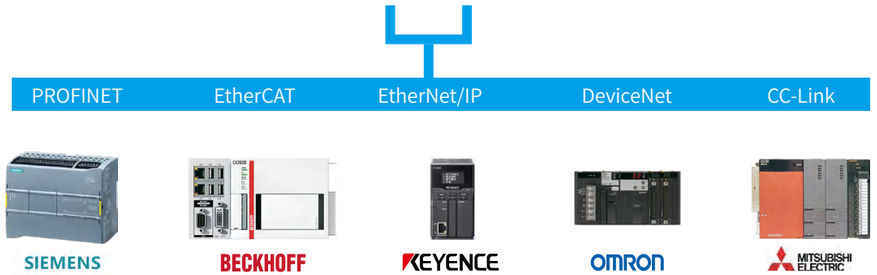
1	EC4-P20D	2 Channel Incremental Encoder Counter Module, 5VDC, Differential, 500kHz
2	XB6S-PL20	2 Channel Incremental Encoder Counting, 24V-NPN & PNP Type, 1MHz
3	XB6S-PL20D	2 Channel Incremental Encoder Counter, 5V-Differential, 1MHz
4	XB6S-PS20D	2 Channel SSI Absolute Encoder Count, 5V-Differential, 2MHz
5	XB6S-PC80	8-Channel Pulse Count, 24V-NPN&PNP Type, 100kHz

Protocol Gateway

Robot Gateway Robot X

Robot X Protocol Gateway

*This kit is for reference only



Product Models

1	GW6L-A0A0(L256)	Slice Gateway EtherCAT slave to EtherCAT slave (fixed length 256 bytes)
2	GW6L-A0B0(L256)	Slice Gateway EtherCAT slave to PROFINET slave (fixed length 256 bytes)
3	GW6L-A0C0(L256)	Slice Gateway EtherCAT slave to EtherNet/IP slave (fixed length 256 bytes)
4	GW6L-A0D0(L256)	Slice Gateway EtherCAT slave to CC-Link slave (fixed length 256 bytes)
5	GW6L-B0B0(L256)	Slice Gateway PROFINET slave to PROFINET slave (fixed length 256 bytes)
6	GW6L-B0C0(L256)	Slice Gateway PROFINET slave to EtherNet/IP slave (fixed length 256 bytes)
7	GW6L-B0D0(L256)	Slice Gateway PROFINET slave to CC-Link slave (fixed length 256 bytes)
8	GW6L-C0C0(L256)	Slice Gateway EtherNet/IP slave to EtherNet/IP slave (fixed length 256 bytes)
9	GW6L-C0D0(L256)	Slice Gateway EtherNet/IP slave to CC-Link slave (fixed length 256 bytes)
10	GW6L-D0D0(L256)	Slice Gateway CC-Link slave to CC-Link slave (fixed length 256 bytes)

Integrated protocol conversion gateway

1. Support various mainstream Industrial Ethernet protocols
2. Support bus protocol conversion between master station and slave station
3. Fast protocol conversion rate and strong real-time performance
4. Support description file and slave device identification

Product Models

1	GW4U-COM-PNS	Integrated general gateway CANopen master to PROFINET slave
2	GW4U-MRM-EIS	Integrated general gateway Modbus RTU master to EtherNet/IP slave
3	GW4U-COM-EIS	Integrated general gateway CANopen master to EtherNet/IP slave
4	GW4U-MRM-ECS	Integrated general gateway Modbus RTU master to EtherCAT slave
5	GW4U-COM-ECS	Integrated general gateway CANopen master to EtherCAT slave
6	GW4U-ECM-PNS	Integrated general gateway EtherCAT master to PROFINET slave
7	GW4U-ECM-EIS	Integrated general gateway EtherCAT master to EtherNet/IP slave
8	GW4U-ECM-CBS	Integrated general gateway EtherCAT master to CC-Link IE Field Basic slave
9	GW4U-PNM-EIS	Integrated general gateway PROFINET master to EtherNet/IP slave
10	GW4U-PNM-ECS	Integrated general gateway PROFINET master to EtherCAT slave
11	GW4U-PNM-CBS	Integrated general gateway PROFINET master to CC-Link IE Field Basic slave

Unmanaged Industrial Ethernet switch

1. Supports full-duplex or half-duplex mode with auto-negotiation capability
2. Ports support full auto MDI/MDIX
3. Built-in store-and-forward mechanism, supports multiple protocols
4. MTBF > 300,000 hours

Product Models

1	SW4-HUP05	Unmanaged 5-port Fast Ethernet Industrial Switch
2	SW4-HUP08	Unmanaged 8-port Fast Ethernet Industrial Switch
3	SW4-HUP08D	Unmanaged 8-port Fast Ethernet Industrial Switch, supports Broadcast Storm Suppression
4	SW4-GUP05D	Unmanaged 5-port Gigabit Industrial Switch, supports Broadcast Storm Suppression
5	SW4-GUP08D	Unmanaged 8-port Gigabit Industrial Switch, supports Broadcast Storm Suppression


SW4-HUP05


SW4-HUP08

EtherCAT Junction

1. 4*RJ45 socket (1IN/3OUT),support cascade connection of junctions
2. Based on high-performance EtherCAT ASIC communication chip to offer faster speed
3. Easy configuration and support most mainstream EtherCAT master stations
4. Power supply system supports reverse connection protection and short circuit protection

Product Models

1	SW4-ECP04	4-port EtherCAT junction（plastic housing）
2	SW4-ECP04A	4-port EtherCAT junction（metal shell）
3	SW4-ECP06	6-port EtherCAT junction（metal shell）


SW4-ECP04


SW4-ECP06

Integrated Serial Interface Gateway

1. Industrial Ethernet 2-port serial output
2. Support RS232/RS485/RS422 three interfaces
3. MR：Support Modbus RTU Master&Slave
4. FP：Support Freeport，protocol package, pass-through

Product Models

1	PN4-GW2MR	PROFINET to Modbus RTU protocol
2	PN4-GW2FP	PROFINET to Free port protocol


PN4-GW2FP

XB6 Series Serial Communication Modules

1. Support RS232/RS485/RS422 three interfaces
2. Support Modbus RTU/ASCII Master
3. Support Freeport
4. Support for customization of each master function block


XB6-C01SP

INTEGRATED I/O NAMING RULE

DIGITAL

XX **4** - 16 **16** B

FIELDBUS TYPES
- EC：EtherCAT
- PN：PROFINET
- EI：EtherNet/IP
- CC：CC-Link
- CB：CC-Link IE Field Basic
- MT：Modbus TCP
- DN：DeviceNet

PRODUCT LINE
- 3：Horizontal type
- 4：Vertical type
- 7：IP67 type

DIGITAL INPUT
(00、08、16、24、32)

DIGITAL OUTPUT
(00、08、12、16、24、32)

INPUT AND OUTPUT POLARITY
- A：NPN
- B：PNP
- Blank：NPN&PNP
- J：Relay

ANALOG

XX **4** - A 8 **0** V

FIELDBUS TYPES
- EC：EtherCAT
- PN：PROFINET
- EI：EtherNet/IP
- CC：CC-Link
- CB：CC-Link IE Field Basic
- MT：Modbus TCP
- DN：DeviceNet

PRODUCT LINE
- 3：Horizontal type
- 4：Vertical type
- 7：IP67 type

ANALOG

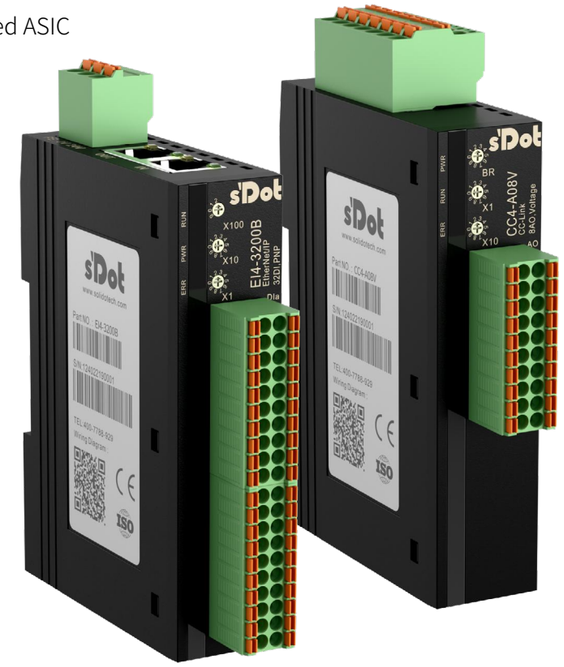
ANALOG INPUT
(0、4、8)

ANALOG OUTPUT
(0、4、8)

INPUT AND OUTPUT POLARITY
- V：Voltage type
- I：Current type

VERTICAL TYPE I/O

1. **Small footprint:** 102×72×25mm
2. **Fast speed:** High-speed ARM + dedicated ASIC
3. **High level of integration:**
   Up to 32 digital channels
   Up to 8 analog channels



Easy to maintain: Terminal blocks are pluggable, easy to inspect issues
Convenient to expand: built-in dual Ethernet ports, modules can be cascaded
Comprehensive modules: digital, analog, temperature, positioning, and counting modules are covered.
Easy to install: 35mm standard DIN rail

EtherCAT · PROFINET · EtherNet/IP · CC-Link · CC-Link IE Field Basic · Modbus TCP · DeviceNet · IO-Link

VERTICAL TYPE I/O MODELS

EtherCAT

EtherCAT (Ethernet Control Automation Technology) is an open architecture, Ethernet-based fieldbus system with the abbreviation CAT for Control Automation Technology, which was first developed by Beckhoff in Germany.

Solidot's products are compatible with most EtherCAT master products currently available in the market:

BECKHOFF · OMRON · CODESYS · KUKA · KEYENCE · TRIO · Kithara · ACS MOTION CONTROL · INOVANCE · XINJE · ADVANTECH · DELTA 台达 · SOFT SERVO · ADLINK Leading EDGE COMPUTING · ADTECH 众为兴 · ESA

DI=digital input, DO= digital output

Single-wire digital I/O		
1	EC4-3200A	EtherCAT, Intergrated I/O, 32DI, NPN
2	EC4-2408A	EtherCAT, Intergrated I/O, 24DI, 8DO, NPN, 0.5A
3	EC4-1616A	EtherCAT, Intergrated I/O, 16DI, 16DO, NPN, 0.5A
4	EC4-0824A	EtherCAT, Intergrated I/O, 8DI, 24DO, NPN, 0.5A
5	EC4-0032A	EtherCAT, Intergrated I/O, 32DO, NPN, 0.5A
6	EC4-1600A	EtherCAT, Intergrated I/O, 16DI, NPN
7	EC4-0808A	EtherCAT, Intergrated I/O, 8DI, 8DO, NPN, 0.5A
8	EC4-0016A	EtherCAT, Intergrated I/O, 16DO, NPN, 0.5A
9	EC4-3200B	EtherCAT, Intergrated I/O, 32DI, PNP

10	EC4-2408B	EtherCAT, Intergrated I/O, 24DI, 8DO, PNP, 0.5A
11	EC4-1616B	EtherCAT, Intergrated I/O, 16DI, 16DO, PNP, 0.5A
12	EC4-0824B	EtherCAT, Intergrated I/O, 8DI, 24DO, PNP, 0.5A
13	EC4-0032B	EtherCAT, Intergrated I/O, 32DO, PNP, 0.5A
14	EC4-1600B	EtherCAT, Intergrated I/O, 16DI, PNP
15	EC4-0808B	EtherCAT, Intergrated I/O, 8DI, 8DO, PNP, 0.5A
16	EC4-0016B	EtherCAT, Intergrated I/O, 16DO, PNP, 0.5A
17	EC4-0012J	EtherCAT, Intergrated I/O, 12DO, Relay, 2A
18	EC4-1612J	EtherCAT, Intergrated I/O, 16DI, 12DO, Relay, 2A
Analog input		
19	EC4-A40V	EtherCAT, Intergrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
20	EC4-A80V	EtherCAT, Intergrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
21	EC4-A40I	EtherCAT, Intergrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
22	EC4-A80I	EtherCAT, Intergrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
Analog output		
23	EC4-A04V	EtherCAT, Intergrated I/O, U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
24	EC4-A08V	EtherCAT, Intergrated I/O, U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
25	EC4-A04I	EtherCAT, Intergrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
26	EC4-A08I	EtherCAT, Intergrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
Function Modules		
27	EC4-P20D	2-channel incremental encoder counter module, 5V-differential, 500kHz
28	EC4-PX02B	High speed digital output module with oversampling
29	EC4S-P04D	CiA402 4-axis pulse output module，5V-differential, 400kHz
30	XX4-C10_4	Integrated common distribution module, supporting 2-wire and 3-wire

PROFINET

PROFINET was introduced by PROFIBUS International (PI) and is a new generation of automation bus standard based on industrial Ethernet technology. PROFINET provides a complete network solution for the automation communication field, including current hot topics in the automation field such as real-time Ethernet, motion control, distributed automation, fault safety, and network security. As a cross-vendor technology, it is fully compatible with industrial Ethernet and existing field bus technologies such as PROFIBUS.
Solidot's products mainly cover integrated I/O, slice I/O, and valve terminals, which are compatible with Siemens S7-1500, S7-1200, S7-200 SMART, and CNC systems, providing a wide range of applications in many industries.

DI=digital input, DO= digital output

Single-wire digital I/O		
1	PN4-3200A	PROFINET, Intergrated I/O, 32DI, NPN
2	PN4-2408A	PROFINET, Intergrated I/O, 24DI, 8DO, NPN, 0.5A
3	PN4-1616A	PROFINET, Intergrated I/O, 16DI, 16DO, NPN, 0.5A
4	PN4-0824A	PROFINET, Intergrated I/O, 8DI, 24DO, NPN, 0.5A
5	PN4-0032A	PROFINET, Intergrated I/O, 32DO, NPN, 0.5A
6	PN4-1600A	PROFINET, Intergrated I/O, 16DI, NPN
7	PN4-0808A	PROFINET, Intergrated I/O, 8DI, 8DO, NPN, 0.5A
8	PN4-0016A	PROFINET, Intergrated I/O, 16DO, NPN, 0.5A
9	PN4-3200B	PROFINET, Intergrated I/O, 32DI, PNP
10	PN4-2408B	PROFINET, Intergrated I/O, 24DI, 8DO, PNP, 0.5A
11	PN4-1616B	PROFINET, Intergrated I/O, 16DI, 16DO, PNP, 0.5A
12	PN4-0824B	PROFINET, Intergrated I/O, 8DI, 24DO, PNP, 0.5A
13	PN4-0032B	PROFINET, Intergrated I/O, 32DO, PNP, 0.5A
14	PN4-1600B	PROFINET, Intergrated I/O, 16DI, PNP
15	PN4-0808B	PROFINET, Intergrated I/O, 8DI, 8DO, PNP, 0.5A
16	PN4-0016B	PROFINET, Intergrated I/O, 16DO, PNP, 0.5A
17	PN4-0012J	PROFINET, Intergrated I/O, 12DO, Relay, 2A
18	PN4-1612J	PROFINET, Intergrated I/O, 16DI, 12DO, Relay, 2A
19	PN4-1616P	PROFINET, Intergrated I/O, 16DI, 16DO, input compatible NPN/PNP, output PNP

Analog input		
20	PN4-A40V	PROFINET, Intergrated I/O, U, 4 channels analog voltage input,support multiple ranges, maximum -10~+10V, ±0.1% accuracy
21	PN4-A80V	PROFINET, Intergrated I/O, U, 8 channels analog voltage input,support multiple ranges, maximum -10~+10V, ±0.1% accuracy
22	PN4-A40I	PROFINET, Intergrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
23	PN4-A80I	PROFINET, Intergrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

Analog output		
24	PN4-A04V	PROFINET, Intergrated I/O, U, 4 channels analog voltage output, support multiple ranges, maximum -10~+10V, ±0.1% accuracy
25	PN4-A08V	PROFINET, Intergrated I/O, U, 8 channels analog voltage output, support multiple ranges, maximum -10~+10V, ±0.1% accuracy
26	PN4-A04I	PROFINET, Intergrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
27	PN4-A08I	PROFINET, Intergrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

Function Modules		
28	PN4-GW2MR	PROFINET to 232/485/422 Modbus RTU protocol
29	PN4-GW2FP	PROFINET to 232/485/422 Free Port Protocol

30	XX4-C10_4	Integrated common distribution module, supporting 2-wire and 3-wire

EtherNet/IP

The abbreviation "IP" in the name stands for "Industrial Protocol", which is an industrial Ethernet communication protocol developed by Rockwell Automation and managed by ODVA (Open DeviceNet Vendors Association). It can be used in program control and other automation applications and is part of the Common Industrial Protocol (CIP). Solidot is one of the earliest companies in China to develop EIP protocol related products and our products mainly adapt the following master products:

DI=digital input, DO= digital output

Single-wire digital I/O		
1	EI4-3200A	EtherNet/IP, Intergrated I/O, 32DI, NPN
2	EI4-2408A	EtherNet/IP, Intergrated I/O, 24DI, 8DO, NPN, 0.5A
3	EI4-1616A	EtherNet/IP, Intergrated I/O, 16DI, 16DO, NPN, 0.5A
4	EI4-0824A	EtherNet/IP, Intergrated I/O, 8DI, 24DO, NPN, 0.5A
5	EI4-0032A	EtherNet/IP, Intergrated I/O, 32DO, NPN, 0.5A
6	EI4-1600A	EtherNet/IP, Intergrated I/O, 16DI, NPN
7	EI4-0808A	EtherNet/IP, Intergrated I/O, 8DI, 8DO, NPN, 0.5A
8	EI4-0016A	EtherNet/IP, Intergrated I/O, 16DO, NPN, 0.5A
9	EI4-3200B	EtherNet/IP, Intergrated I/O, 32DI, PNP
10	EI4-2408B	EtherNet/IP, Intergrated I/O, 24DI, 8DO, PNP, 0.5A
11	EI4-1616B	EtherNet/IP, Intergrated I/O, 16DI, 16DO, PNP, 0.5A
12	EI4-0824B	EtherNet/IP, Intergrated I/O, 8DI, 24DO, PNP, 0.5A
13	EI4-0032B	EtherNet/IP, Intergrated I/O, 32DO, PNP, 0.5A
14	EI4-1600B	EtherNet/IP, Intergrated I/O, 16DI, PNP
15	EI4-0808B	EtherNet/IP, Intergrated I/O, 8DI, 8DO, PNP, 0.5A
16	EI4-0016B	EtherNet/IP, Intergrated I/O, 16DO, PNP, 0.5A

Analog input		
17	EI4-A40V	EtherNet/IP, Intergrated I/O, U, 4 channels analog voltage input,support multiple ranges, maximum -10~+10V, ±0.1% accuracy
18	EI4-A80V	EtherNet/IP, Intergrated I/O, U, 8 channels analog voltage input,support multiple ranges, maximum -10~+10V, ±0.1% accuracy
19	EI4-A40I	EtherNet/IP, Intergrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
20	EI4-A80I	EtherNet/IP, Intergrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

Analog output		
21	EI4-A04V	EtherNet/IP, Intergrated I/O, U, 4 channels analog voltage output, support multiple ranges, maximum -10~+10V, ±0.1% accuracy
22	EI4-A08V	EtherNet/IP, Intergrated I/O, U, 8 channels analog voltage output, support multiple ranges, maximum -10~+10V, ±0.1% accuracy
23	EI4-A04I	EtherNet/IP, Intergrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
24	EI4-A08I	EtherNet/IP, Intergrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

25	XX4-C10_4	Integrated common distribution module, supporting 2-wire and 3-wire

CC-Link

CC-Link is an open fieldbus with large data capacity and multi-level selectable communication speed, and it is a composite, open and adaptable network system that can be adapted to different ranges from higher management level networks to lower sensor level networks. Led by Mitsubishi, FX5U, L, Q, IQ-R series PLCs are the most common CC-Link master stations. Solidot CC-Link has a Solidot's products mainly cover integrated I/O, Slice I/O, and valve terminals.

DI=digital input, DO= digital output

Single-wire digital I/O		
1	CC4-3200AL	CC-Link, Intergrated I/O, 32DI, NPN, input delay ⩽ 1.5ms
2	CC4-0032A	CC-Link, Intergrated I/O, 32DO, NPN, 0.5A
3	CC4-1616AL	CC-Link, Intergrated I/O, 16DI, 16DO, NPN, input delay ⩽ 1.5ms，0.5A
4	CC4-1600AL	CC-Link, Intergrated I/O, 16DI, NPN, input delay ⩽ 1.5ms
5	CC4-0016A	CC-Link, Intergrated I/O, 16DO, NPN, 0.5A
6	CC4-0808AL	CC-Link, Intergrated I/O, 8DI, 8DO, NPN, input delay ⩽ 1.5ms，0.5A
7	CC4-3200BL	CC-Link, Intergrated I/O, 32DI, PNP, input delay ⩽ 1.5ms
8	CC4-0032B	CC-Link, Intergrated I/O, 32 DO, PNP, 0.5A
9	CC4-1616BL	CC-Link, Intergrated I/O, 16DI, 16DO, PNP, input delay ⩽ 1.5ms，0.5A
10	CC4-1600BL	CCC-Link, Intergrated I/O, 16DI, PNP, input delay ⩽ 1.5ms
11	CC4-0016B	CC-Link, Intergrated I/O, 16 DO, PNP, 0.5A
12	CC4-0808BL	CC-Link, Intergrated I/O, 8DI, 8DO, PNP, input delay ⩽ 1.5ms，0.5A
13	CC4-3200A	CC-Link, Intergrated I/O, 32DI, NPN
14	CC4-1600A	CC-Link, Intergrated I/O, 16DI, NPN
15	CC4-1616A	CC-Link, Intergrated I/O, 16DI, 16DO, NPN, 0.5A
16	CC4-0808A	CC-Link, Intergrated I/O, 8DI, 8DO, NPN, 0.5A
17	CC4-3200B	CC-Link, Intergrated I/O, 32DI, PNP, 0.5A
18	CC4-1600B	CC-Link, Intergrated I/O, 16DI, PNP
19	CC4-1616B	CC-Link, Intergrated I/O, 16DI, 16DO, PNP, 0.5A
20	CC4-0808B	CC-Link, Intergrated I/O, 8DI, 8DO, PNP，0.5A

Analog input		
21	CC4-A40V	CC-Link, Intergrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+5V / 1~+5V, ±0.1% accuracy
22	CC4-A80V	CC-Link, Intergrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+5V / 1~+5V, ±0.1% accuracy
23	CC4-A40I	CC-Link, Intergrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
24	CC4-A80I	CC-Link, Intergrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

Analog output		
25	CC4-A04V	CC-Link, Intergrated I/O, U, 4 channels analog voltage output, -10~+10V / 0~+5V / 1~+5V, ±0.1% accuracy
26	CC4-A08V	CC-Link, Intergrated I/O, U, 8 channels analog voltage output, -10~+10V / 0~+5V / 1~+5V, ±0.1% accuracy
27	CC4-A04I	CC-Link, Intergrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
28	CC4-A08I	CC-Link, Intergrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

29	XX4-C10_4	Integrated common distribution module, supporting 2-wire and 3-wire

CC-Link IE Field Basic

CC-Link IE Field Basic is a new member of the CC-Link IE protocol and is a bus network based on the standard 100Mbps Ethernet, specifically designed to provide a low-cost control network for small-scale systems that do not require high-speed control. Solidot has been a long-term partner of CLPA and has developed CC-Link and CC-Link IE compatible products. CC-Link IE Field Basic products can be used with Mitsubishi FX5U, L, Q, IQ-R PLCs.

DI=digital input, DO= digital output

Single-wire digital I/O		
1	CB4-3200A	CC-Link IE Field Basic, Integrated I/O, 32DI, NPN
2	CB4-2408A	CC-Link IE Field Basic, Integrated I/O, 24DI, 8DO, NPN, 0.5A
3	CB4-1616A	CC-Link IE Field Basic, Integrated I/O, 16DI, 16DO, NPN, 0.5A
4	CB4-0824A	CC-Link IE Field Basic, Integrated I/O, 8DI, 24DO, NPN, 0.5A
5	CB4-0032A	CC-Link IE Field Basic, Integrated I/O, 32DO, NPN, 0.5A
6	CB4-1600A	CC-Link IE Field Basic, Integrated I/O, 16DI, NPN
7	CB4-0808A	CC-Link IE Field Basic, Integrated I/O, 8DI, 8DO, NPN, 0.5A
8	CB4-0016A	CC-Link IE Field Basic, Integrated I/O, 16DO, NPN, 0.5A
9	CB4-3200B	CC-Link IE Field Basic, Integrated I/O, 32DI, PNP
10	CB4-1616B	CC-Link IE Field Basic, Integrated I/O, 16DI, 16DO, PNP, 0.5A
11	CB4-0032B	CC-Link IE Field Basic, Integrated I/O, 32 DO, PNP, 0.5A
12	CB4-1600B	CC-Link IE Field Basic, Integrated I/O, 16DI, PNP
13	CB4-0016B	CC-Link IE Field Basic, Integrated I/O, 16 DO, PNP, 0.5A
14	CB4-0808B	CC-Link IE Field Basic, Integrated I/O, 8 DI, 8DO, PNP, 0.5A
15	CB4-2408B	CC-Link IE Field Basic, Integrated I/O, 24DI, 8DO, PNP, 0.5A
16	CB4-0824B	CC-Link IE Field Basic, Integrated I/O, 8DI, 24DO, PNP, 0.5A
17	CB4-1612J	CC-Link IE Field Basic, Integrated I/O, 16 DI(NPN/PNP), 12-channel relay output, 2A
18	CB4-0012J	CC-Link IE Field Basic, Integrated I/O, 12-channel relay output, 2A

Analog input		
19	CB4-A40V	CC-Link IE Field Basic, Integrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
20	CB4-A80V	CC-Link IE Field Basic, Integrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
21	CB4-A40I	CC-Link IE Field Basic, Integrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
22	CB4-A80I	CC-Link IE Field Basic, Integrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

Analog output		
23	CB4-A04V	CC-Link IE Field Basic, Integrated I/O, U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
24	CB4-A08V	CC-Link IE Field Basic, Integrated I/O, U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
25	CB4-A04I	CC-Link IE Field Basic, Integrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
26	CB4-A08I	CC-Link IE Field Basic, Integrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

27	XX4-C10_4	Integrated common distribution module, supporting 2-wire and 3-wire

Modbus TCP

Modbus is a serial communication protocol published by Modicon (now Schneider Electric) in 1979 for communication with programmable logic controllers (PLCs). Modbus has become a de facto standard communication protocol in the industrial field and is now a common way to connect industrial electronic devices. There are versions of the Modbus protocol for serial ports, Ethernet, and other networks supporting Internet protocols. Solidot Modbus TCP products have built-in Ethernet switches for easier wiring. They are usually used with PLCs from LabVIEW, Siemens, Beckhoff, and Schneider Electric.

DI=digital input, DO= digital output

Single-wire digital I/O		
1	MT4-3200A	Modbus TCP, Integrated I/O, 32DI, NPN
2	MT4-1616A	Modbus TCP, Integrated I/O, 16DI, 16DO, NPN, 0.5A
3	MT4-0032A	Modbus TCP, Integrated I/O, 32DO, NPN, 0.5A
4	MT4-1600A	Modbus TCP, Integrated I/O, 16DI, NPN
5	MT4-0808A	Modbus TCP, Integrated I/O, 8DI, 8DO, NPN, 0.5A
6	MT4-0016A	Modbus TCP, Integrated I/O, 16DO, NPN, 0.5A
7	MT4-1616B	Modbus TCP, Integrated I/O, 16DI, 16DO, PNP, 0.5A
8	MT4-3200B	Modbus TCP, Integrated I/O, 32DI, PNP
9	MT4-1600B	Modbus TCP, Integrated I/O, 16DI, PNP
10	MT4-0032B	Modbus TCP, Integrated I/O, 32 DO, PNP, 0.5A
11	MT4-0016B	Modbus TCP, Integrated I/O, 16 DO, PNP, 0.5A
12	MT4-0808B	Modbus TCP, Integrated I/O, 8DI, 8DO, PNP, 0.5A
13	MT4-2408A	Modbus TCP, Integrated I/O, 24 DI, 8DO, NPN, 0.5A
14	MT4-1612J	Modbus TCP, Integrated I/O, 16 DI, 12-channel relay output，input compatible NPN/PNP, 2A
15	MT4-1616P	Modbus TCP, Integrated I/O, 16DI, 16DO, input compatible NPN/PNP，output PNP type

Analog input		
16	MT4-A40V	Modbus TCP, Integrated I/O, U, 4 channels analog voltage input,support multiple ranges, maximum -10~+10V, ±0.1% accuracy
17	MT4-A80V	Modbus TCP, Integrated I/O, U, 8 channels analog voltage input,support multiple ranges, maximum -10~+10VV, ±0.1% accuracy
18	MT4-A40I	Modbus TCP, Integrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
19	MT4-A80I	Modbus TCP, Integrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

Analog output		
20	MT4-A04V	Modbus TCP, Integrated I/O, U, 4 channels analog voltage output, support multiple ranges, maximum -10~+10V, ±0.1% accuracy
21	MT4-A08V	Modbus TCP, Integrated I/O, U, 8 channels analog voltage output, support multiple ranges, maximum -10~+10V, ±0.1% accuracy
22	MT4-A04I	Modbus TCP, Integrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
23	MT4-A08I	Modbus TCP, Integrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

24	XX4-C10_4	Integrated common distribution module, supporting 2-wire and 3-wire

DeviceNet

DeviceNet is a field bus standard for automation technology developed by Allen-Bradley in 1994. DeviceNet uses controller area network (CAN) as its underlying communication protocol, and has defined profiles for different devices at its application layer. Its main applications include information exchange, safety equipment, and large control systems. It has a high market share in the United States. Solidot's products include integrated I/O, which is used with Omron CJ series PLC and ABB robots.

DI=digital input, DO= digital output

Single-wire digital I/O		
1	DN4-3200A	DeviceNet, Integrated I/O, 32DI, NPN
2	DN4-1616A	DeviceNet, Integrated I/O, 16DI, 16DO, NPN, 0.5A
3	DN4-0032A	DeviceNet, Integrated I/O, 32DO, NPN, 0.5A
4	DN4-1600A	DeviceNet, Integrated I/O, 16DI, NPN
5	DN4-0808A	DeviceNet, Integrated I/O, 8DI, 8DO, NPN, 0.5A
6	DN4-0016A	DeviceNet, Integrated I/O, 16DO, NPN, 0.5A
7	DN4-3200B	DeviceNet, Integrated I/O, 32DI, PNP
8	DN4-0032B	DeviceNet, Integrated I/O, 32DO, PNP, 0.5A
9	DN4-1616B	DeviceNet, Integrated I/O, 16DI, 16DO, PNP, 0.5A
10	DN4-1600B	DeviceNet, Integrated I/O, 16DI, PNP
11	DN4-0016B	DeviceNet, Integrated I/O, 16DO, PNP, 0.5A
12	DN4-0808B	DeviceNet, Integrated I/O, 8DI, 8DO, PNP, 0.5A

13	XX4-C10_4	Integrated common distribution module

HORIZONTAL TYPE I/O - CC3S

1. Digital input signals are compatible with NPN & PNP
2. The height is only 35mm
3. Can filter out glitch within 1.5ms, a variety of digital input delay models are available
4. The innovative channel indicator design is adopted as the indicators are placed close to the channels, channel status is displayed intuitively and clearly, facilitating detection and maintenance

HORIZONTAL TYPE I/O CC3S MODELS

DI=digital input, DO= digital output

Single-wire digital I/O		
1	CC3S-3200	CC-Link, Integrated I/O, 32DI, NPN & PNP compatible, Spring terminal
2	CC3S-1616A	CC-Link, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Spring terminal
3	CC3S-1616B	CC-Link, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Spring terminal
4	CC3S-0032A	CC-Link, Integrated I/O, 32DO, NPN, 0.5A, Spring terminal
5	CC3S-0032B	CC-Link, Integrated I/O, 32DO, PNP, 0.5A, Spring terminal

Simple configuration and support for major controllers. DIN 35 mm standard rail mounting, stable and fast wiring.

CC-Link

HORIZONTAL TYPE I/O

1. Digital input signals are compatible with NPN & PNP
2. The height is only 35mm
3. The innovative channel indicator design is adopted as the indicators are placed close to the channels, channel status is displayed intuitively and clearly, facilitating detection and maintenance.

100 Mbps industrial Ethernet port. Simple configuration and support for major controllers. DIN 35 mm standard rail mounting, using screw-fixed wiring terminal, stable and fast wiring.

PROFINET
EtherCAT
EtherNet/IP

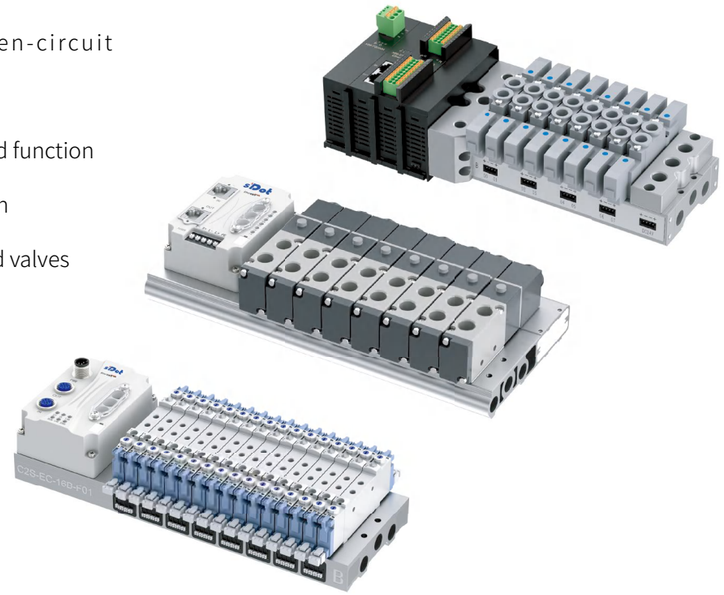
HORIZONTAL TYPE I/O MODELS

DI=digital input, DO= digital output

Single-wire digital I/O		
1	EI3-3200	Ethernet/IP, Integrated I/O, 32DI, NPN & PNP compatible, Screw terminal
2	EI3-1616A	Ethernet/IP, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
3	EI3-1616B	Ethernet/IP, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
4	EI3-0032A	Ethernet/IP, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
5	EI3-0032B	Ethernet/IP, Integrated I/O, 32DO, PNP, 0.5A, Screw terminal
6	PN3-3200	PROFINET, Integrated I/O, 32DI, NPN & PNP compatible, Screw terminal
7	PN3-1616A	PROFINET, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
8	PN3-1616B	PROFINET, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
9	PN3-0032A	PROFINET, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
10	PN3-0032B	PROFINET, Integrated I/O, 32DO, PNP, 0.5A, Screw terminal
11	EC3-3200	EtherCAT, Integrated I/O, 32DI, NPN & PNP compatible, Screw terminal
12	EC3-1616A	EtherCAT, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
13	EC3-1616B	EtherCAT, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
14	EC3-0032A	EtherCAT, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
15	EC3-0032B	EtherCAT, Integrated I/O, 32DO, PNP, 0.5A, Screw terminal

VALVE TERMINAL

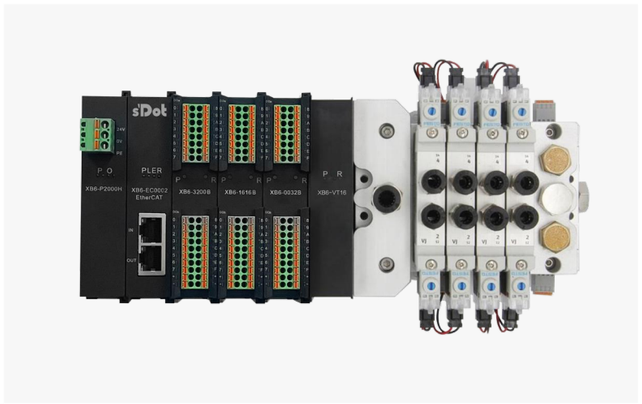
1. Support multiple bus protocols
2. Save wiring
3. Support short-circuit / open-circuit diagnostics
4. Support single channel clear/hold function
5. Output channel counting function
6. Support up to 24 double solenoid valves



Solidot valve terminal is China’s first self-developed valve terminal and has strong universality. Products can be customized according to the numbers and models of solenoid valve based on customer demands. It supports protocols like PROFINET、EtherCAT、EtherNet/IP、CC-Link IE Field Basic, ect. The conventional bus plate is adopted to freely extend input and output modules, achieving closed-loop control of the solenoid valve. The customized manifold base is designed with aluminum alloy, increasing the aesthetic of the product.

SMC FESTO CKD AirTAC

SLICE VALVE TERMINAL



Slice Valve Terminal

Features.
It can be used in conjunction with Solidot XB6 series slice I/O mixing.The structure is more compact and the application is more flexible.

XB6 - (VUVG-L14) - 16 - G - N

① ② ③ ④ ⑤

Code ① : Fieldbus protocol

Code	Protocol
XB6	X-bus

Code ②: Solenoid valve models (rated voltage DC24V, and the wire lead-out method is selected as the wire-out type). If single or double solenoid valves exist at the same time, only single solenoid valve will be filled in. This valve terminal is adapted to the following series of solenoid valves.

Brands	Series
FESTO	VUVG -L10/LK10
	VUVG -L14/LK14
SMC	SY3
	SY5
	SY7

Brands	Series
AirTAC	4V100M
	4V200M
	7V0500M
	7V100M
	7V200M
CKD	4GD1
	4GD2

Installation size similar to the above solenoid valves can also be customized

Code ③: Valve positions, ranges from 04-16 (both single and double solenoid valve supports up to 16 valve positions).

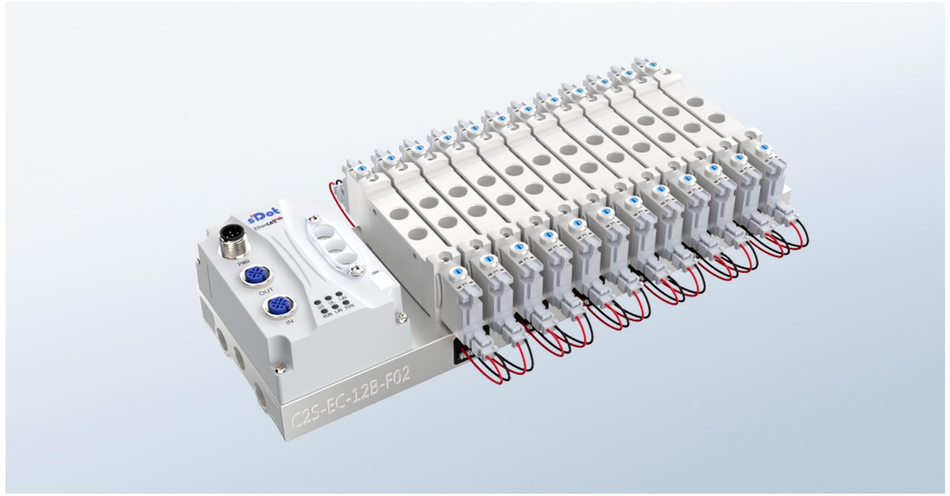
Code ④: Inlet and outlet threads of the manifold (the default type is the same as the type of solenoid valve teeth)

Code	G	R	N	M
Thread	G Thread	RC Thread	NPT Thread	Metric thread

Code ⑤: Provide gaskets and screws for solenoid valve installation (By default, the customer provides their own solenoid valve)

Customer's own	Need our company to provide
Y	N

Integrated Valve Terminal - C2S Series with M12 Interface



C2S - EC - 12 B - F01

① ② ③ ④

Code ①: Fieldbus protocol

Codes	EC	PN	EI	CB	CL
Protocol	EtherCAT	PROFINET	EtherNet/IP	CC-Link IE Field Basic	CC-Link

Code ②: Valve positions

04	06	08	10	12	14	16	18	20	22	24

Code ③: Solenoid valve mounting method

A (Single side outlet)
B (Both side outlets)

Code ④: Solenoid valve models (The rated voltage is DC24V and the open wiring is selected as the wiring method). This valve terminal is adapted to the following series of solenoid valves

Brands	Serial number	Series	
FESTO	F01	VUVG-LK10	VUVG-L10
	F02	VUVG-LK14	VUVG-L14
SMC	S01	SY3	
	S02	SY5	
	S03	SY7	
	S07	SYJ3	
	S08	SYJ5	
	S09	VQZ100	
CKD	C01	4GD1	4RD1
	C02	4GD2	4RD2

Brands	Serial number	Series	
AirTAC	A01	4V1	
	A02	4V2	
	A04	7V0	
	A05	7V1	
	A06	7V2	
	A07	5V1	
	A08	5V2	
	A09	3V1	
	A10	3V2	
	A13	6SV1	
	A14	6SV2	

Integrated Valve Terminal - C2P Series with RJ45 Interface

C2P - EC - 12 B - F01

① ② ③ ④

Code ①: Fieldbus protocol

Codes	EC	PN	EI	CB
Protocol	EtherCAT	PROFINET	EtherNet/IP	CC-Link IE Field Basic

Code ②: Valve positions

04	06	08	10	12	14	16	18	20	22	24

Code ③: Solenoid valve mounting method

A (Single side outlet)
B (Both side outlets)

Code ④: Compatible solenoid valve models (Rated voltage DC24V)

Brands	Serial number	Series		Brands	Serial number	Series	
FESTO	F01	VUVG-LK10	VUVG-L10	AirTAC	A01	4V1	
	F02	VUVG-LK14	VUVG-L14		A02	4V2	
SMC	S01	SY3			A04	7V0	
	S02	SY5			A05	7V1	
	S03	SY7			A06	7V2	
	S07	SYJ3			A07	5V1	
	S08	SYJ5			A08	5V2	
	S09	VQZ100			A09	3V1	
CKD	C01	4GD1	4RD1		A10	3V2	
	C02	4GD2	4RD2		A13	6SV1	
					A14	6SV2	

Integrated Valve Terminal - Bottom Ported Plug-in Series

Features: Supports multiple interfaces such as M12, RJ45 and D Sub.

C2S - EC - 12 C - A12　　**C2P - EC - 12 C - A12**

① ② ③ ④

Code ①:

C2S Fieldbus protocol

Codes	EC	PN	EI	CB	CL	OO
Protocol	EtherCAT	PROFINET	EtherNet/IP	CC-Link IE Field Basic	CC-Link	D-Sub

C2P Fieldbus protocol

Codes	EC	PN	EI	CB
Protocol	EtherCAT	PROFINET	EtherNet/IP	CC-Link IE Field Basic

Code ②: Valve positions

04	06	08	10	12	14	16	18	20	22	24

Code ③: Solenoid valve mounting method

C (Downward plug-in installation)

Code ④: Solenoid valve models (The rated voltage is DC24V and the concealed wiring is selected as the wiring method). This valve terminal is adapted to the following series of solenoid valves

Brands	Serial number	Series	
AirTAC	A12	4V210	

Integrated Valve Terminal - Multi-Pin D Sub Series

C2S - OO - 12 B - F01

① ② ③

Code ①: Valve positions

04	06	08	10	12	14	16	18	20	22	24

Code ②: Solenoid valve mounting method

A (Single side outlet)
B (Both side outlets)

Code ③: Solenoid valve models (The rated voltage is DC24V and the open wiring is selected as the wiring method). This valve terminal is adapted to the following series of solenoid valves

Brands	Serial number	Series	
FESTO	F01	VUVG-LK10	VUVG-L10
	F02	VUVG-LK14	VUVG-L14
SMC	S01	SY3	
	S02	SY5	
	S03	SY7	
	S07	SYJ3	
	S08	SYJ5	
	S09	VQZ100	
CKD	C01	4GD1	4RD1
	C02	4GD2	4RD2

Brands	Serial number	Series	
AirTAC	A01	4V1	
	A02	4V2	
	A04	7V0	
	A05	7V1	
	A06	7V2	
	A07	5V1	
	A08	5V2	
	A09	3V1	
	A10	3V2	
	A13	6SV1	
	A14	6SV2	

IP67 FIELDBUS I/O

1. The shell is made of PBT+GF30% reinforced plastic material, with excellent mechanical properties and good electrical insulation
2. Power supply interface adopts M12-L code, maximum over-current 16A
3. Wide range of I/O types, covering various signal types
4. Universal I/O and bus interfaces, no custom cables required, high compatibility
5. Diverse channel indicator design is adopted to display channel status intuitively and clearly
6. A firmware upgrade interface is reserved, making product upgrades more convenient

Solidot IP67 I/O modules support various bus protocols. The size of the product is 225*62*35mm. The shell is made of PTB+GF30% reinforced plastic material with excellent mechanical performance. The fully sealed design is suitable for harsh working conditions. A wide range of signal types provide diverse options for field applications.

EtherCAT
PROFINET
CC-Link

IP67 FIELDBUS I/O MODELS

DI=digital input, DO= digital output

Single-wire digital I/O		
1	EC7-1600A	EtherCAT, Integrated I/O, 16DI, NPN
2	EC7-1600B	EtherCAT, Integrated I/O, 16DI, PNP
3	EC7-0016A	EtherCAT, Integrated I/O, 16DO, NPN
4	EC7-0016B	EtherCAT, Integrated I/O, 16DO, PNP
5	EC7-0808A	EtherCAT, Integrated I/O, 8DI, 8DO, NPN, 0.5A
6	EC7-0808B	EtherCAT, Integrated I/O, 8DI, 8DO, PNP, 0.5A
7	CC7-1600A	CC-Link, Integrated I/O, 16DI, NPN
8	CC7-1600B	CC-Link, Integrated I/O, 16DI, PNP
9	CC7-0016A	CC-Link, Integrated I/O, 16DO, NPN, 0.5A
10	CC7-0016B	CC-Link, Integrated I/O, 16DO, PNP, 0.5A
11	CC7-0808A	CC-Link, Integrated I/O, 8DI, 8DO, NPN, 0.5A
12	CC7-0808B	CC-Link, Integrated I/O, 8DI, 8DO, PNP, 0.5A
13	PN7-1600A	PROFINET, Integrated I/O, 16DI, NPN
14	PN7-1600B	PROFINET, Integrated I/O, 16DI, PNP
15	PN7-0016A	PROFINET, Integrated I/O, 16DO, NPN, 0.5A
16	PN7-0016B	PROFINET, Integrated I/O, 16DO, PNP, 0.5A
17	PN7-0808A	PROFINET, Integrated I/O, 8DI, 8DO, NPN, 0.5A
18	PN7-0808B	PROFINET, Integrated I/O, 8DI, 8DO, PNP, 0.5A
19	PN7-0016A+	PROFINET, Integrated I/O, 16-Channel Configurable Module for Digital Input and Output, NPN
20	PN7-0016B+	PROFINET, Integrated I/O, 16-Channel Configurable Module for Digital Input and Output, PNP

IO-Link

IO-Link Master

1. Up to IP67 protection
2. Designed with standard IO-Link v1.1
3. Support a variety of I/O types and fieldbus protocols
4. Class-A or Class-B are available for interface type
5. Connection of various IO-Link standard slaves and standard switch signals
6. LED indicators display channel-level protection and diagnostics

NAMING RULE

IOL 7 - EC 01 B - 8A

Product Technology	IP rating	Fieldbus type	Product Serial Number	Input/Output Channel Type	I/O Interface
Albbreviation for IO-Link	7：IP67	EC：EtherCAT PN：PROFINET		A：NPN B：PNP	8A

MODELS

1	IOL7-EC01B-8A	EtherCAT 8xClass-A Port IO-Link Master
2	IOL7-PN01B-8A	PROFINET 8xClass-A Port IO-Link Master
3	IOL7-PN01B-8A-1	PROFINET 8xClass-A Port IO-Link Master，Support PIN2 output

IO-Link Hub

1. Up to IP67 protection
2. Easy and fast wiring for both power and data transmission
3. Designed with standard IO-Link v1.1
4. Connection of various IO-Link standard masters
5. LED indicators display channel-level protection and diagnostics

NAMING RULE

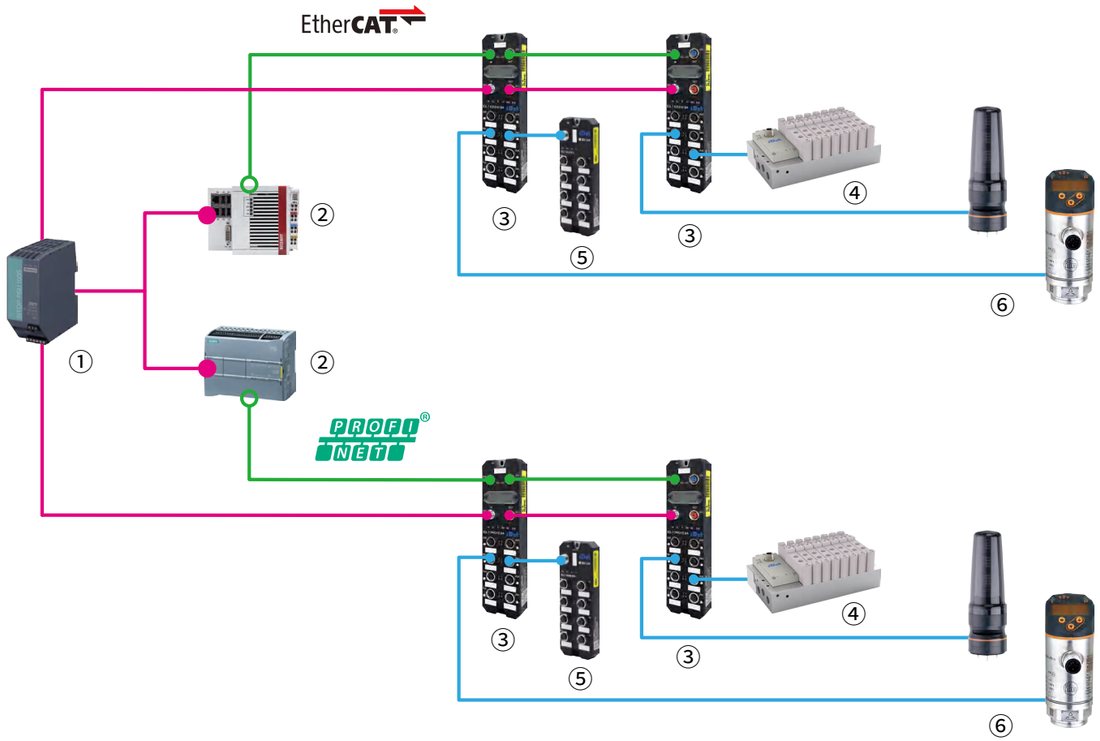
IOL 7 - A 16 00 B - M12 ■

Product Technology	IP rating	I/O module type	Input Channel Type	Output Channel Type	Input/Output Channel Type	I/O Interface	I/O-Link Interface Type
IOL：IO-Link	7：IP67	Default: digital A: analog	Analog：8 Digital：00、16	Digital: 16 C：Configurable input and output channels	A：NPN B：PNP Default: digital NPN/PNP compatible analog voltage/ current compatible	M12	Default: Default Class-A

MODELS

1	IOL7-1600B-M12	16 Channels Digital Input IO-Link Hub, PNP
2	IOL7-0016B-M12	16 Channels Digital Output IO-Link Hub, PNP
3	IOL7-16CA-M12	IO-Link Hub that can be configured with a maximum of 16 channels for input or output, NPN
4	IOL7-16CB-M12	IO-Link Hub that can be configured with a maximum of 16 channels for input or output, PNP
5	IOL7-A8C-M12	8-channel analog voltage and current inputs and outputs configurable IO-Link Hub

IO-Link System Overview



No.	Description
①	Power supply
②	PLC
③	PROFINET、EtherCAT、EtherNet/IP protocol IO-Link 8A master
④	IO-Link Valve Terminal
⑤	DI、DO、DI/DO IO-Link slave
⑥	IO-Link Sensor, Actuator, etc.

1 Extended power module parameters

Parameter Name	Technical Specification
Input Voltage	SELV Input
	24VDC（18V~36V）
Input Current	600mA（24VDC）
Output voltage	5VDC
Output current	2A
Specification and size	XB6S-P2000 106.4×25.7×61mm
Weight	110g
Operation temperature	-20°C ~+60°C
Storage temperature	-40°C ~+80°C
Relative humidity	95%, no condensation
Altitude	⩽ 2000m
Pollution degree	Level 2
Short circuit protection	Support (automatic recovery mechanism)
Reverse polarity protection	Support (automatic recovery mechanism)
Surge protection	Support
Protection grade	IP20

APPENDIX NANJING SOLIDOT ELECTRONIC TECHNOLOGY CO., LTD.

2 Network interface parameters

Bus protocol	EtherCAT	EtherNet/IP	PROFINET	Modbus TCP	CC-Link IE Field Basic	CC-Link	DeviceNet
Number of Slave Stations	Depends on the number of slaves supported by the master					Remote I/O stations: up to 64 stations Remote device stations: up to 42 stations	Maximum 64 stations
Data transmission medium	Ethernet/EtherCAT CAT5 cable					CC-Link dedicated cable (3-core shielded stranded wire)	DeviceNet-specific cables
Transmission rate	100Mb/s					10Mbps / 5Mbps / 2.5Mbps / 625kbps / 156kbps	500kbps / 250kbps / 156kbps
Transmission distance	⩽ 100m (station-to-station distance)					10 Mbps ⩽ 100m 5 Mbps ⩽ 160m 2.5 Mbps ⩽ 400m 625 kbps ⩽ 900m 156 kbps ⩽ 1200m	500 kbps ⩽ 100m 250 kbps ⩽ 250m 156 kbps ⩽ 500m
Bus Interface	XX7 series：2xM12-D,4pin XX3, XX4, XX6 series：2×RJ45					XX3 series: bullet type terminal , 4P XX4 series: bullet type terminal , 7P XX7 series: 2xM12-D,4pin	Spring-loaded terminal block, 7P
Configuration mode	Configure on the master station software						
Rated supply voltage	24 VDC (18V~36V)						
Power contacts	IP20：Max 24 VDC/10A　IP67：Max 24 VDC/16A						
Power supply protection measures	Polarity protection, short-cricuit protection						
Physical dimensions	XX3 series：100×96×32mm　XX4 series：102×72×25mm　XB6S series：106.4×43×61mm　XX7 series：225×62×35mm						
Weight	XX3 series：170g　XX4 series：140g　XB6S series：155g or 160g　XX7 series：480g						
Mounting method	DIN 35mm rail						
Altitude	Below 2000m (Reference sea level operating altitude)						
IP rating	XX3、XX4、XX6S series：IP20　XX7 series：IP67						
Operating environment	Avoid dust, oil mist and corrosive gases						
Storage humidity	95%，Non-condensing						

3 Digital input parameters

Parameter Name	Technical Specification
Number of channels	32 channels / 16 channels / 8 channels
Signal Type	NPN (sink)/ PNP (source)
Rated supply voltage	24VDC（20.4V~28.8V）
Input filtering	Default 3ms (1ms, 2ms, 3ms can be set)
Isolation withstand voltage	500 VAC
Isolation method	Optocoupler isolation
I/O external connection method	IP20: pop-up terminal block, MIL connector, screw type terminal IP67: M12-A, 5pin
Common terminal method	8 points / 16 points, maximum current 8A per common terminal (depending on the specific model)
Physical dimensions	XX3 series：100×96×32mm　XX4 series：102×72×25mm XB6S series：106.4×25.7×72.3mm　XX7 series：225×62×35mm
Weight	XX3 series：170g　XX4 series：140g XB6S series：110g or 90g　XX7 series：480g
Mounting method	DIN 35mm rail
Altitude	Below 2000m (Reference sea level operating altitude)
IP rating	XX3、XX4、XB6S series：IP20　XX7 series：IP67
Operating environment	Avoid dust, oil mist and corrosive gases
Storage humidity	95%，Non-condensing

4 Transistor output parameters

Parameter Name	Technical Specifications
Number of channels	32 channels / 16 channels / 8 channels
Signal Type	NPN (sink)/ PNP (source)
Rated supply voltage	24 VDC (18V~30V)
Single-channel load current	A type、B type: Max.0.5A　BW type: Max.0.25A
Isolation method	Optocoupler isolation
Isolation withstand voltage	500 VAC
Load Type	Resistive load, inductive load, lamp load
I/O external connection method	IP20: pop-up terminal block, MIL connector, screw type terminal IP67: M12-A, 5pin
Common terminal method	8 points / 16 points a common terminal, each common terminal maximum current 2A/4A/8A (depending on the specific model)
Channel protection	Overcurrent, short-circuit protection
Physical dimensions	XX3 series：100×96×32mm　XX4 series：102×72×25mm XB6S series：106.4×25.7×72.3mm　XX7 series：225×62×35mm
Weight	XX3 series：170g　XX4 series：140g XB6S series：110g or 90g　XX7 series：480g
Mounting method	DIN 35mm rail
Altitude	Below 2000m (Reference sea level operating altitude)
IP rating	XX3、XX4、XB6S series：IP20　XX7 series：P67
Operating environment	Avoid dust, oil mist and corrosive gases
Storage humidity	95%，Non-condensing

5 Relay output parameters

Parameter Name	Technical Specifications	
Number of channels	12 channels	
On site input voltage	24 VDC (18V~30V)	
Rated switch voltage	24 VDC	
Rated switching current	Single channel Max: 2A	
Output response time	ON → OFF	⩽ 10ms
	OFF → ON	⩽ 10ms
Isolation withstand voltage	500 VAC	
Load Type	Resistive load, inductive load, lamp load	
I/O external connection method	XX4、XB6S series：Slug type terminal	
Common terminal method	XX4 is 4 o'clock/public end; XB6S is 6 o'clock/public end	
Physical dimensions	XX4 series：102×72×25mm　XB6S series：106.4×25.7×72.3mm	
Weight	XX4 series：140g　XB6S series：110g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000m (Reference sea level operating altitude)	
IP rating	XX4、XB6S series：IP20	
Operating environment	Avoid dust, oil mist and corrosive gases	
Storage humidity	95%，Non-condensing	

6 Analog input parameters

Parameter Name	Technical Specifications	
Number of channels	8 channels / 4 channels	
Rated voltage of bus input power supply	5VDC（4.5V~5.5V）	
Input method	Single-ended, differential	
Range	Voltage type	Disable, -10V~+10V, 0V~10V, -5V~+5V, 0V~5V, 1V~5V (Measures can be adjusted, considered-10V~+10V)
	Current type	Disable, 4mA~20mA, 0mA~20mA, -20mA~+20mA (Range adjustable, default is 0mA~20mA)
Resolution	16bit	
Sampling frequency	⩽ 1 ksps	
Accuracy	± 0.1% at 25 ℃ , ± 0.3% over the entire temperature range	
Input Filtering	Support	
Isolation withstand voltage	500 VAC	
Channel Protection	Over-voltage protection	
I/O external connection method	Spring-type terminal	
Physical dimensions	XX4 series：102×72×25mm　XB6S series：106.4×25.7×72.3mm	
Weight	XX4 series：140g　XB6S series：110g or 90g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000m (Reference sea level operating altitude)	
IP rating	IP20	
Operating environment	Avoid dust, oil mist and corrosive gas	
Storage humidity	95%，Non-condensing	

7 Analog output parameters

Parameter Name	Technical Specifications	
Number of channels	8 channels / 4 channels	
Rated voltage of bus input power supply	5VDC（4.5V~5.5V）	
Range	Voltage type	Disable, -10V~+10V, 0V~10V, -5V~+5V, 0V~5V, 1V~5V (Measures can be adjusted, considered-10V~+10V)
	Current type	Disable, 4mA~20mA, 0mA~20mA (Range adjustable, default is 0mA~20mA)
Resolution	16bit	
Accuracy	± 0.1% at 25 °C , ± 0.3% over the entire temperature range	
Load Impedance	⩾ 2 kΩ	
Isolation withstand voltage	500 VAC	
Channel Protection	Short-circuit protection	
I/O external connection method	Spring-type terminal	
Physical dimensions	XX4 series：102×72×25mm XB6S series：106.4×25.7×72.3mm	
Weight	XX4 series：140g XB6S series：110g or 90g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000m (Reference sea level operating altitude)	
IP rating	XX4、XB6S series：IP20	
Operating environment	Avoid dust, oil mist and corrosive gases	
Storage humidity	95%，Non-condensing	

8 Temperature acquisition module parameters

Parameter Name	Technical Specifications		
Number of channels	8 channels / 4 channels		
Sensor type	Thermocouple (TC)	Thermal Resistance Device (RTD)	Resistance (TD)
Wiring method	2-Wiring	2-Wiring, 3-Wiring	2-Wiring
Sensor code and range	B：50~1800°C C：（reserve）[1] E：-200~1000°C J：-200~1200°C K：-200~1370°C L：（reserve） N：（reserve） R：（reserve） S：-50~1690°C T：（reserve） U：（reserve）	Pt100：— 200~850°C Pt200：— 200~850°C Pt500：— 200~850°C Pt1000：— 200~850°C Ni120：（reserve） Ni100：-60~250°C Ni1000：-60~250°C Ni200：（reserve） Ni500：（reserve）	15Ω~3kΩ 15Ω~150Ω（reserve） 15Ω~300Ω（reserve） 15Ω~600Ω（reserve）
Accuracy	±0.3% @25°C (F.S.) ±0.5% @-20~60°C (F.S.)	±0.1% @25°C (F.S.) ±0.3% @-20~60°C (F.S.)	±0.1% @25°C (F.S.) ±0.3% @-20~60°C (F.S.)
Sensitivity	0.1°C		±0.1 Ω
Temperature measurement unit	Supports switching between Celsius, Fahrenheit, and thermodynamic temperature scale units (default unit is Celsius)[2]		
Resolution	16 bit (int type)		
Channel conversion time	29ms/ch 115ms/8ch	73ms/ch 290ms/8ch	
Filtering	Single-Channel Filtering, Configurable (Levels 1~10)		
Break detection	Support		
Break detection time	2ms		
Accidentally receiving voltage protection	±30V		
Noise suppression	50Hz、60Hz、10Hz、no noise suppression		
Excitation current	<2mA		
Input impedance	⩾ 10KΩ		
Isolation method	Digital isolation		
Isolation and voltage resistance	500VDC		
Physical dimensions	106.4 x 25.7 x 72.3mm		
Weight	8 channels 110g, 4 channels 90g		
Mounting method	DIN 35mm rail		
Altitude	Up to 2000m (Reference sea level operating altitude)		
IP rating	IP20		
Operating environment	Avoid dust, oil mist and corrosive gas		
Storage humidity	95%, non-condensing		

Note [1]: Sensor codes C, L, N, R, T, U, Ni120, Ni200, Ni500, 15 Ω ～ 150 Ω, 15 Ω ～ 300 Ω, and 15 Ω ～ 600 Ω configurations are currently not supported.
Note [2]: Fahrenheit (°F)=32+T (°C) × 1.8; Thermodynamic temperature scale (K)=T (°C)+273.15.
Note [3]: 4-wire sensors need to be changed to 2-wire or 3-wire connections

9 Pulse input module parameters

Parameter Name	Technical Specifications	
Number of channels	2 channels，8 channels	
Rated supply voltage	24 VDC (18V~36V)	
Encoder type	Incremental encoder, Orthogonal	
Encoder power supply	5 VDC	
Type of Acquisition signal	Single ended, differential	
Signal type	RS422	
Process data volume	Upstream	Maximum 64Byte
	Downstream	Maximum 20 bytes
Z-phase zeroing	Support	
Hardware latch	Configurable latch signal	
Comparison output	Support	
Calculate magnification setting	4x/2x/1x	
Resolution setting	Support	
Circular counting	Support	
Linear counting	Support	
Count initial value setting	Support	
Hardware filtering	Support（level 0-15）	
Counting range selection	Support	
Reverse Count	Support	
I/O external connection method	Spring-type terminal	
Input signal	Signal type	NPN&PNP compatibility
	Channel	2，8

Output signal	Single channel load current	Max.0.5A
	Load Type	Ohmic loadd, inductive load, lamp load
I/O external connection method	Spring-type terminal	
Physical dimensions	XX4 series：102×72×25mm XB6S series：106.4×25.7×72.3mm	
Weight	XX4 series：140g XB6S series：110g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000m (Reference sea level operating altitude)	
IP rating	IP20	
Operatin environment	Avoid dust, oil mist and corrosive gases	
Storage humidity	95%, Non-condensing	

10 Pulse output module parameters

Parameter Name	Technical Specifications
Number of axes	2，4，4-axis
Rated power supply voltage	24 VDC（18V~36V）
PULSE mode	Single pulse (pulse+direction), dual pulse (CW/CCW)
Output frequency	⩽ 400kHz
Synchronous cycle	⩾ 1ms
signal type	NPN、PNP
I/O external connection method	spring-type terminal XB6S
Exterior dimensions	XX4 series：102×72×25mm XB6S series：106.4×25.7×72.3mm
Weight	XX4 series：140g XB6S series：110g
Mounting method	DIN 35mm rail
Altitude	Below 2000 meters (referring to operating altitude relative to sea level)
IP rating	XX4、XB6S series：IP20
Operatin environment	Avoid dust, oil mist and corrosive gases
Storage humidity	95%, non-condensing

11 IO-Link master parameters

Parameter Name	Technical Specifications
Operating voltag（V）	24 VDC(18V~30V)
US total current	Maximum 16A
UA total current	Maximum 16A
IO-Link interface	M12, A-code, 4Pin, Pin end
Number of IO-Link channels	8
Type of IO-Link interfac	Class-A/Class-B
Version of IO-link	V1.1
Power interface	M12, L-code, 5Pin, Pin end/Hole end
Number of input channels	Maximum 16 points
Number of output channels	Maximum 8 points
Signal type	PNP
Mounting method	Screw fixation
Altitude	Below 2000m (Reference sea level operating altitude)
IP rating	IP67
Perating temperature	-25~ +70°C
Storage temperature	-40~ +85°C
Relative humidity	95%, Non-condensing

12 IO-Link hub parameters

Parameter Name	Technical Specifications	
Operating voltage（V）	24 VDC (18V~30V)	
Current loss（mA）	Idle condition：15mA	
IO-Link interface	M12, A-code, 4Pin, Pin end	
Type of IO-Link interface	Class-A	
Version of IO-link	V1.1	
Communication speed	COM2(38.4kbps)	
Minimum cycle time	3.2ms	
nput/output interface	M12, A-code, 5Pin, Hole end	
Input signal	Signal type	PNP/NPN
	Number of channels	Maximum 16 channels
	Output signal	4mA
Output signal	Signal type	PNP/NPN
	Number of channels	Maximum 16 channels
	Maximum current for single-channel output	0.5A
	Total output current	Maximum 2mA
Diagnostic Support	Supply Pressure Monitoring;Temperature Monitoring;Short Circuit and Overload Protection	
Protective Measures	Short Circuit Protection; Overload Protection	
Dimensions	164.7×57.7×34.1 mm	
Mounting Method	Screw Fixing	
Altitude	Below 2000m (operating altitude relative to sea level)	
IP rating	IP67	
Operating Temperature	-25~ +70°C	
Storage Temperature	-40~ +85°C	
Relative Humidity	95%, non-condensing	

Pre-injection connector

Pre-molded connectors, also known as pre-assembled cables, constitute a crucial component of the IP67 bus I/O systems. In comparison to on-site wiring connectors, they significantly reduce installation costs and save installation time. Their material and structural characteristics render them suitable for various industrial environments, including damp and oily conditions. Moreover, they meet the IP67 protection rating requirements. To cater to different application environments, we offer a variety of cable options with different outer coverings and functionalities.

Fixed Installation Type

There are two types of fixed installation cables available for selection:

① PVC Sheathed Cables: Suitable for the majority of on-site environments, these cables offer excellent cost-effectiveness and serve as the standard configuration solution for connecting system products.
② PUR Sheathed Cables: Specifically designed for environments with oil contamination and low temperatures, these cables come with a shielding layer for enhanced interference resistance.
③ Standard cable lengths are available in 0.5/1/2/3/5/10/15/20 meters, with custom lengths available upon request.

PVC Outer Sheathing

Cable type	Shielding	Thread color	Conductor cross-sectional area	Wire size	Companion interfaces	Wire certification
Communication lines	Yes	green	4 × 0.34mm²(22AWG)	6.5±0.30mm	M12 D-code	CE、UL、RoHS
Power cord	No	black	5 × 1.50mm²(16AWG)	8.4±0.30mm	M12 L-code	
I/O lines	No	black	5 × 0.34mm²(22AWG)	5.2±0.30mm	M12 A-code	
CC-Link communication cable	Yes	red	3 × 0.56mm²(20AWG)	7.7±0.30mm	M12 A-code	

PUR Outer Sheathing

Cable type	Shielding	Thread color	Conductor cross-sectional area	Wire size	Companion interfaces	Wire certification
Communication lines	Yes	green	4 × 0.34mm²(22AWG)	6.5±0.30mm	M12 D-code	CE、UL、RoHS
Power cord	Yes	black	5 × 1.50mm²(16AWG)	9.6±0.40mm	M12 L-code	
I/O lines	Yes	black	5 × 0.34mm²(22AWG)	6.0±0.30mm	M12 A-code	

Drag Chain Installation Type

Drag chain cables with the following specifications are available for customization:

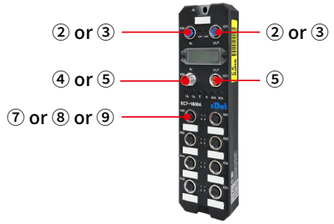
① Durability:PUR sheathing, minimum bending radius 10D, rated for 5 million flex cycles
② Shielding: Communication cables feature shielded construction with model numbers ending in "RST", while power cables and I/O cables are unshielded with model numbers ending in "RT".
③ Length: Customizable cable lengths (e.g., 0.5 / 1 / 2 / 3 meters...)

Note: For cable selection and quotation, please contact our sales team.

Fixed Installation Type - PVC

IP20 Fieldbus I/O

IP67 Fieldbus I/O



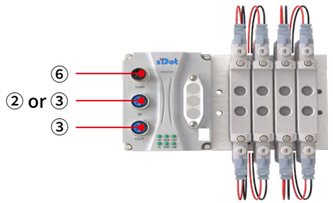
Category	Model	Description
① Communication Cable 	R/R-0.5CS	RJ45/RJ45，0.5m，green with shielded，PVC
	R/R-1.0CS	RJ45/RJ45，1m，green with shielded，PVC
	R/R-2.0CS	RJ45/RJ45，2m，green with shielded，PVC
	R/R-3.0CS	RJ45/RJ45，3m，green with shielded，PVC
	R/R-5.0CS	RJ45/RJ45，5m，green with shielded，PVC
	R/R-10.0CS	RJ45/RJ45，10m，green with shielded，PVC
② Communication Cable 	AZG/R-0.5CS	M12 straight/RJ45，D-Code，Male 4-pin，0.5m，green with shielded，PVC
	AZG/R-1.0CS	M12 straight/RJ45，D-Code，Male 4-pin，1m，green with shielded，PVC
	AZG/R-2.0CS	M12 straight/RJ45，D-Code，Male 4-pin，2m，green with shielded，PVC
	AZG/R-3.0CS	M12 straight/RJ45，D-Code，Male 4-pin，3m，green with shielded，PVC
	AZG/R-5.0CS	M12 straight/RJ45，D-Code，Male 4-pin，5m，green with shielded，PVC
	AZG/R-10.0CS	M12 straight/RJ45，D-Code，Male 4-pin，10m，green with shielded，PVC
③ Communication Cable 	AZG/AZG-0.5CS	M12 straight/M12 straight，D-Code，Male 4-pin，0.5m，green with shielded，PVC
	AZG/AZG-1.0CS	M12 straight/M12 straight，D-Code，Male 4-pin，1m，green with shielded，PVC
	AZG/AZG-2.0CS	M12 straight/M12 straight，D-Code，Male 4-pin，2m，green with shielded，PVC
	AZG/AZG-3.0CS	M12 straight/M12 straight，D-Code，Male 4-pin，3m，green with shielded，PVC
	AZG/AZG-5.0CS	M12 straight/M12 straight，D-Code，Male 4-pin，5m，green with shielded，PVC
	AZG/AZG-10.0CS	M12 straight/M12 straight，D-Code，Male 4-pin，10m，green with shielded，PVC
④ Module Power Cable 	BZM/S-0.5C	M12 straight/ loose wires，L-Code，Female 5-pin，0.5m，black unshielded，PVC
	BZM/S-1.0C	M12 straight/ loose wires，L-Code，Female 5-pin，1m，black unshielded，PVC
	BZM/S-2.0C	M12 straight/ loose wires，L-Code，Female 5-pin，2m，black unshielded，PVC
	BZM/S-3.0C	M12 straight/ loose wires，L-Code，Female 5-pin，3m，black unshielded，PVC
	BZM/S-5.0C	M12 straight/ loose wires，L-Code，Female 5-pin，5m，black unshielded，PVC
	BZM/S-10.0C	M12 straight/ loose wires，L-Code，Female 5-pin，10m，black unshielded，PVC
⑤ Module Power Cable 	BZG/BZM-0.5C	M12 straight/M12 straight，L-Code，Male 5-pin/Female 5-pin，0.5m，black unshielded，PVC
	BZG/BZM-1.0C	M12 straight/M12 straight，L-Code，Male 5-pin/Female 5-pin，1m，black unshielded，PVC
	BZG/BZM-2.0C	M12 straight/M12 straight，L-Code，Male 5-pin/Female 5-pin，2m，black unshielded，PVC
	BZG/BZM-3.0C	M12 straight/M12 straight，L-Code，Male 5-pin/Female 5-pin，3m，black unshielded，PVC
	BZG/BZM-5.0C	M12 straight/M12 straight，L-Code，Male 5-pin/Female 5-pin，5m，black unshielded，PVC
	BZG/BZM-10.0C	M12 straight/M12 straight，L-Code，Male 5-pin/Female 5-pin，10m，black unshielded，PVC

Category	Model	Description
⑥ Valve Terminal Power Cable 	CZM/S-0.5C	M12 straight/ loose wires，A-Code，Female 5-pin，0.5m，black with shielded，PVC
	CZM/S-1.0C	M12 straight/ loose wires，A-Code，Female 5-pin，1m，black with shielded，PVC
	CZM/S-2.0C	M12 straight/ loose wires，A-Code，Female 5-pin，2m，black with shielded，PVC
	CZM/S-3.0C	M12 straight/ loose wires，A-Code，Female 5-pin，3m，black with shielded，PVC
	CZM/S-5.0C	M12 straight/ loose wires，A-Code，Female 5-pin，5m，black with shielded，PVC
	CZM/S-10.0C	M12 straight/ loose wires，A-Code，Female 5-pin，10m，black with shielded，PVC
⑦ I/O Cable 	CZG/S-0.5C	M12 straight/ loose wires，A-Code，Male 5-pin，0.5m，black with shielded，PVC
	CZG/S-1.0C	M12 straight/ loose wires，A-Code，Male 5-pin，1m，black with shielded，PVC
	CZG/S-2.0C	M12 straight/ loose wires，A-Code，Male 5-pin，2m，black with shielded，PVC
	CZG/S-3.0C	M12 straight/ loose wires，A-Code，Male 5-pin，3m，black with shielded，PVC
	CZG/S-5.0C	M12 straight/ loose wires，A-Code，Male 5-pin，5m，black with shielded，PVC
	CZG/S-10.0C	M12 straight/ loose wires，A-Code，Male 5-pin，10m，black with shielded，PVC
⑧ I/O Cable 	CZG/CZM-0.5C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，0.5m，black unshielded，PVC
	CZG/CZM-1.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，1m，black unshielded，PVC
	CZG/CZM-2.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，2m，black unshielded，PVC
	CZG/CZM-3.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，3m，black unshielded，PVC
	CZG/CZM-5.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，5m，black unshielded，PVC
	CZG/CZM-10.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，10m，black unshielded，PVC
⑨ I/O Cable 	CZG/CZM-0.5C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，0.5m，black with shielded，PVC
	CZG/CZM-1.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，1m，black with shielded，PVC
	CZG/CZM-2.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，2m，black with shielded，PVC
	CZG/CZM-3.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，3m，black with shielded，PVC
	CZG/CZM-5.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，5m，black with shielded，PVC
	CZG/CZM-10.0C	M12 straight/M12 straight，A-Code，Male 5-pin/Female 5-pin，10m，black with shielded，PVC
⑩ CC-Link Communication Cable 	DZG/S-0.5CS	M12 straight/ loose wires，A-code，Male 4-pin，0.5m，red with shielded，PVC
	DZG/S-1.0CS	M12 straight/ loose wires，A-code，Male 4-pin，1m，red with shielded，PVC
	DZG/S-2.0CS	M12 straight/ loose wires，A-code，Male 4-pin，2m，red with shielded，PVC
	DZG/S-3.0CS	M12 straight/ loose wires，A-code，Male 4-pin，3m，red with shielded，PVC
	DZG/S-5.0CS	M12 straight/ loose wires，A-code，Male 4-pin，5m，red with shielded，PVC
	DZG/S-10.0CS	M12 straight/ loose wires，A-code，Male 4-pin，10m，red with shielded，PVC
⑪ CC-Link Communication Cable 	CZM/S-0.5CS	M12 straight/ loose wires，A-code，Female 5-pin，0.5 m，red with shielded，PVC
	CZM/S-1.0CS	M12 straight/ loose wires，A-code，Female 5-pin，1m，red with shielded，PVC
	CZM/S-2.0CS	M12 straight/ loose wires，A-code，Female 5-pin，2m，red with shielded，PVC
	CZM/S-3.0CS	M12 straight/ loose wires，A-code，Female 5-pin，3m，red with shielded，PVC
	CZM/S-5.0CS	M12 straight/ loose wires，A-code，Female 5-pin，5m，red with shielded，PVC
	CZM/S-10.0CS	M12 straight/ loose wires，A-code，Female 5-pin，10m，red with shielded，PVC
⑫ CC-Link Communication Cable 	DZG/CZM-0.5CS	M12 straight/M12 straight，A-code，Male 4-pin/Female 5-pin，0.5m，red with shielded，PVC
	DZG/CZM-1.0CS	M12 straight/M12 straight，A-code，Male 4-pin/Female 5-pin，1m，red with shielded，PVC
	DZG/CZM-2.0CS	M12 straight/M12 straight，A-code，Male 4-pin/Female 5-pin，2m，red with shielded，PVC
	DZG/CZM-3.0CS	M12 straight/M12 straight，A-code，Male 4-pin/Female 5-pin，3m，red with shielded，PVC
	DZG/CZM-5.0CS	M12 straight/M12 straight，A-code，Male 4-pin/Female 5-pin，5m，red with shielded，PVC
	DZG/CZM-10.0CS	M12 straight/M12 straight，A-code，Male 4-pin/Female 5-pin，10m，red with shielded，PVC

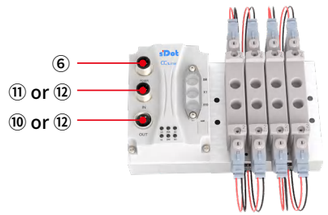
* ⑨ Compared to ⑧ , these cables are equipped with shielding, making them more suitable for interference-prone environments.

Fixed Installation Type - PUR

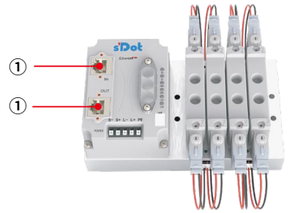
C2S Valve Terminal



C2S Valve Terminal（CC-Link）

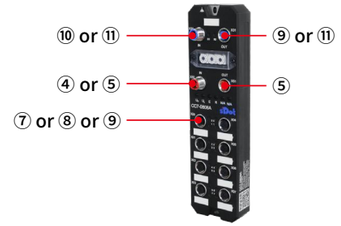


C2P Valve Terminal

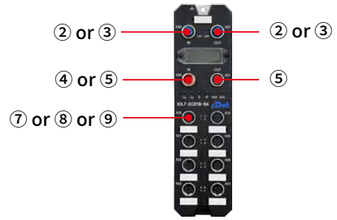


Category	Model	Description
① Communication Cable 	R/R-0.5RS	RJ45/RJ45，0.5m，green with shielded，PUR
	R/R-1.0RS	RJ45/RJ45，1m，green with shielded，PUR
	R/R-2.0RS	RJ45/RJ45，2m，green with shielded，PUR
	R/R-3.0RS	RJ45/RJ45，3m，green with shielded，PUR
	R/R-5.0RS	RJ45/RJ45，5m，green with shielded，PUR
	R/R-10.0RS	RJ45/RJ45，10m，green with shielded，PUR
② Communication Cable 	AZG/R-0.5RS	M12 straight/RJ45，D-Code，Male 4-pin，0.5m，green with shielded，PUR
	AZG/R-1.0RS	M12 straight/RJ45，D-Code，Male 4-pin，1m，green with shielded，PUR
	AZG/R-2.0RS	M12 straight/RJ45，D-Code，Male 4-pin，2m，green with shielded，PUR
	AZG/R-3.0RS	M12 straight/RJ45，D-Code，Male 4-pin，3m，green with shielded，PUR
	AZG/R-5.0RS	M12 straight/RJ45，D-Code，Male 4-pin，5m，green with shielded，PUR
	AZG/R-10.0RS	M12 straight/RJ45，D-Code，Male 4-pin，10m，green with shielded，PUR
③ Communication Cable 	AZG/AZG-0.5RS	M12 straight/M12 straight，D-Code，Male 4-pin，0.5m，green with shielded，PUR
	AZG/AZG-1.0RS	M12 straight/M12 straight，D-Code，Male 4-pin，1m，green with shielded，PUR
	AZG/AZG-2.0RS	M12 straight/M12 straight，D-Code，Male 4-pin，2m，green with shielded，PUR
	AZG/AZG-3.0RS	M12 straight/M12 straight，D-Code，Male 4-pin，3m，green with shielded，PUR
	AZG/AZG-5.0RS	M12 straight/M12 straight，D-Code，Male 4-pin，5m，green with shielded，PUR
	AZG/AZG-10.0RS	M12 straight/M12 straight，D-Code，Male 4-pin，10m，green with shielded，PUR
④ Module Power Cable 	BZM/S-0.5RS	M12 straight/loose wires，L-Code，Female 5-pin，0.5m，black with shielded，PUR
	BZM/S-1.0RS	M12 straight/loose wires，L-Code，Female 5-pin，1m，black with shielded，PUR
	BZM/S-2.0RS	M12 straight/loose wires，L-Code，Female 5-pin，2m，black with shielded，PUR
	BZM/S-3.0RS	M12 straight/loose wires，L-Code，Female 5-pin，3m，black with shielded，PUR
	BZM/S-5.0RS	M12 straight/loose wires，L-Code，Female 5-pin，5m，black with shielded，PUR
	BZM/S-10.0RS	M12 straight/loose wires，L-Code，Female 5-pin，10m，black with shielded，PUR

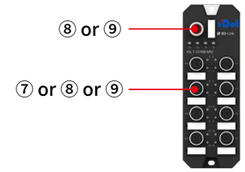
IP67 Fieldbus I/O（CC-Link）



IO-Link Master



IO-Link Hub



Category	Model	Description
⑤ Module Power Cable 	BZG/BZM-0.5RS	M12 straight/M12 straight，L-Code，Male 5-pin,/Female 5-pin，0.5m，black with shielded，MAX 16A，PUR
	BZG/BZM-1.0RS	M12 straight/M12 straight，L-Code，Male 5-pin,/Female 5-pin，1m，black with shielded，MAX 16A，PUR
	BZG/BZM-2.0RS	M12 straight/M12 straight，L-Code，Male 5-pin,/Female 5-pin，2m，black with shielded，MAX 16A，PUR
	BZG/BZM-3.0RS	M12 straight/M12 straight，L-Code，Male 5-pin,/Female 5-pin，3m，black with shielded，MAX 16A，PUR
	BZG/BZM-5.0RS	M12 straight/M12 straight，L-Code，Male 5-pin,/Female 5-pin，5m，black with shielded，MAX 16A，PUR
	BZG/BZM-10.0RS	M12 straight/M12 straight，L-Code，Male 5-pin,/Female 5-pin，10m，black with shielded，MAX 16A，PUR
⑥ Valve Terminal Power Cable 	CZM/S-0.5RS	M12 straight/loose wires，A-Code，Female 5-pin，0.5m，black with shielded，PUR
	CZM/S-1.0RS	M12 straight/loose wires，A-Code，Female 5-pin，1m，black with shielded，PUR
	CZM/S-2.0RS	M12 straight/loose wires，A-Code，Female 5-pin，2m，black with shielded，PUR
	CZM/S-3.0RS	M12 straight/loose wires，A-Code，Female 5-pin，3m，black with shielded，PUR
	CZM/S-5.0RS	M12 straight/loose wires，A-Code，Female 5-pin，5m，black with shielded，PUR
	CZM/S-10.0RS	M12 straight/loose wires，A-Code，Female 5-pin，10m，black with shielded，PUR
⑦ I/O Cable 	CZG/S-0.5RS	M12 straight/loose wires，A-Code，Male 5-pin,，0.5m，black with shielded，PUR
	CZG/S-1.0RS	M12 straight/loose wires，A-Code，Male 5-pin,，1m，black with shielded，PUR
	CZG/S-2.0RS	M12 straight/loose wires，A-Code，Male 5-pin,，2m，black with shielded，PUR
	CZG/S-3.0RS	M12 straight/loose wires，A-Code，Male 5-pin,，3m，black with shielded，PUR
	CZG/S-5.0RS	M12 straight/loose wires，A-Code，Male 5-pin,，5m，black with shielded，PUR
	CZG/S-10.0RS	M12 straight/loose wires，A-Code，Male 5-pin,，10m，black with shielded，PUR
⑧ I/O Cable 	CZG/CZM-0.5RS	M12 straight/M12 straight，A-Code，Male 5-pin,/Female 5-pin，0.5m，black with shielded，PUR
	CZG/CZM-1.0RS	M12 straight/M12 straight，A-Code，Male 5-pin,/Female 5-pin，1m，black with shielded，PUR
	CZG/CZM-2.0RS	M12 straight/M12 straight，A-Code，Male 5-pin,/Female 5-pin，2m，black with shielded，PUR
	CZG/CZM-3.0RS	M12 straight/M12 straight，A-Code，Male 5-pin,/Female 5-pin，3m，black with shielded，PUR
	CZG/CZM-5.0RS	M12 straight/M12 straight，A-Code，Male 5-pin,/Female 5-pin，5m，black with shielded，PUR
	CZG/CZM-10.0RS	M12 straight/M12 straight，A-Code，Male 5-pin,/Female 5-pin，10m，black with shielded，PUR

Splitter

Splitters main function is to extend the I/O interface of the modules. Solidot offers the M12/M8 Y junction, the M12/M12 Y junction, the M12/M12 T junction, and the Y junction with extension cables. The two interfaces can be connected either directly to M8/M12 sensors or indirectly to open-end sensors via field-wireable connectors. Both connections can meet the requirements of the IP67 protection class.

	Model Number	Description
	DYG/EYM	M12/M8 Y junction, A-code, male 4-pin/female 3-pin
	DYG/GYM	M12/M12 Y junction, A-code, male 4-pin/female 3-pin
	DTG/GTM	M12/M12 T junction, A-code, male 4-pin/female 3-pin
	DYG/EYM-0.1C	M12/M8 Y-type junction, A-code, 4-core male/3-core female, with 0.1m PVC extension cable (customizable extension cable length)
	DYG/GYM-0.1C	M12/M12 Y junction, A-code, male 4-pin/female 3-pin, 0.1m PVC extension cable included (the length can be customized)

Field-wireable Connector

Field-wireable connectors are often used in scenarios where cable length can be customized based on individual's demands. Solidot offers a screw connection solution and primarily recommends unshielded (plastic) straight connectors. The adoption of elastic rubber ring and the wire clamp inside the connector enables it to meet the IP67 protection class.

	Model Number	Description
	EZG-LP	M8 straight, A-code, male 3-pin, screw connection, plastic housing

	Model Number	Description
	AZG-LP	M12 straight, D-code, male 4-pin, screw connection, plastic housing
	BZG-LP	M12 straight, L-code, male 5-pin, screw connection, plastic housing,
	BZM-LP	M12 straight, L-code, female 5-pin, screw connection, plastic housing
	CZG-LP	M12 straight, A-code, male 5-pin, screw connection, plastic housing
	CZM-LP	M12 straight, A-code, female 5-pin, screw connection, plastic housing

Accessories

	Model Number	Description
	DZG-ZP	CC-Link terminal resistance, M12 straight, A-code, female 4-pin, 110Ω, 1/2W
	PZG-LP	PROFIBUS-DP socket, vertical, no programming port, built-in terminal resistance, adjustable by slide switch
	FZM-LP	M12 female dust cap
	FZG-LP	M12 male dust cap

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