



EX Series Card I/O

Compact Structure Simple Wiring

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2016

Company establishment



100+

Intellectual property



1000+

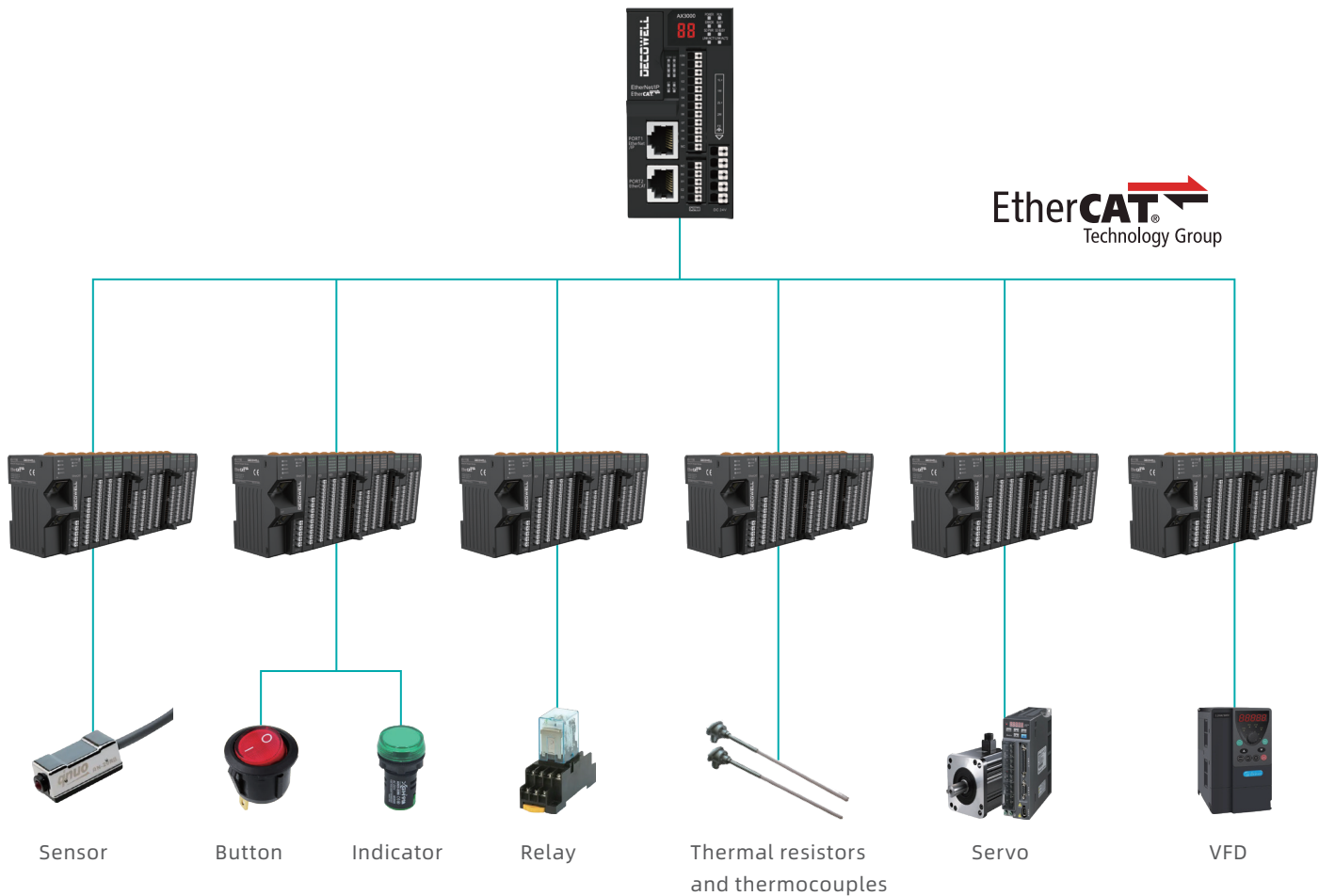
Customers

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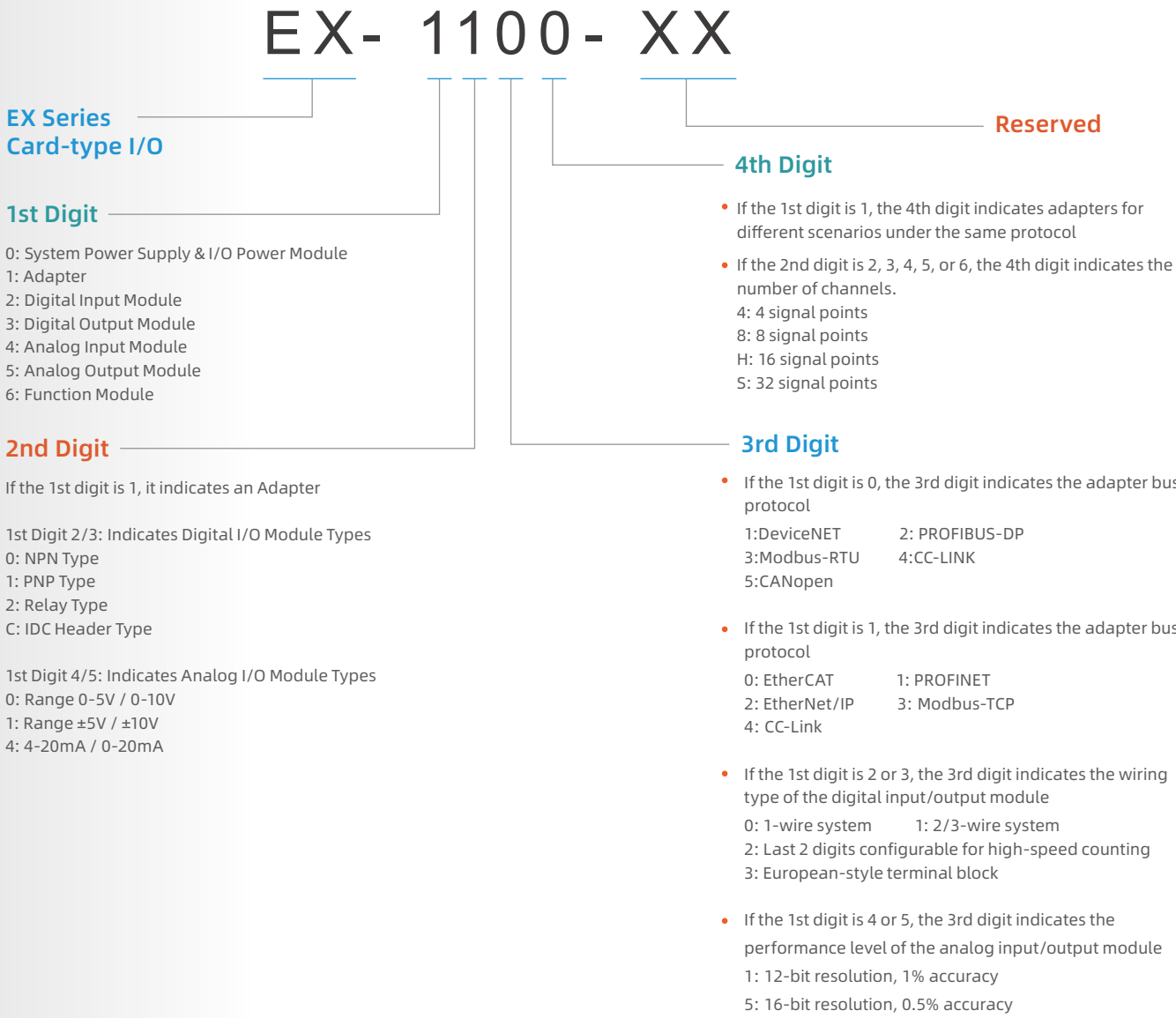
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Product introduction

EX series card I/O consists of adapter module, I/O module, power module, and terminal module. Adapter can support a variety of communication buses, such as PROFINET, EtherNet/IP, EtherCAT, DeviceNet, Modbus RTU, PROFIBUS-DP, and so on. Adapter module is used to expand different types and quantities of I/O modules by converting the standard communication bus into the communication bus of the product module. I/O module can be divided into digital input module, digital output module, analog input module, analog output module and function module. The digital input module, I/O module and analog input module have external power supply interfaces designed at the ports, which can provide power for on-site sensors without adding additional terminal blocks, and can support two-wire and three-wire sensors. A single module has a maximum of 32 I/O points, and a single Adapter can expand a maximum of 32 I/O modules. The module is designed with abundant diagnostic functions and status indicators, and users can easily identify the current running status of the module.

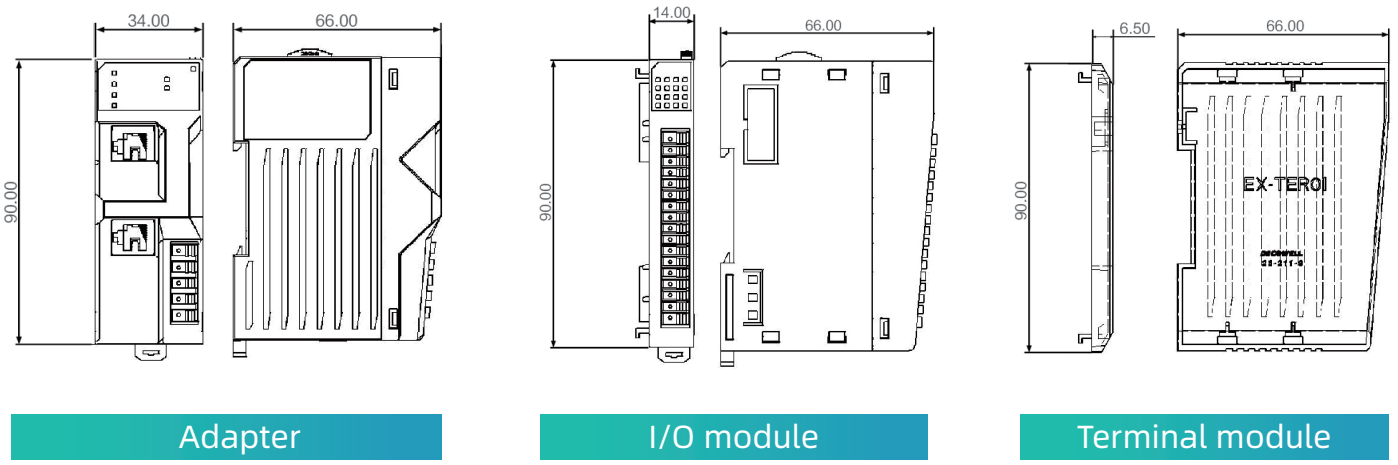


Product Naming Convention

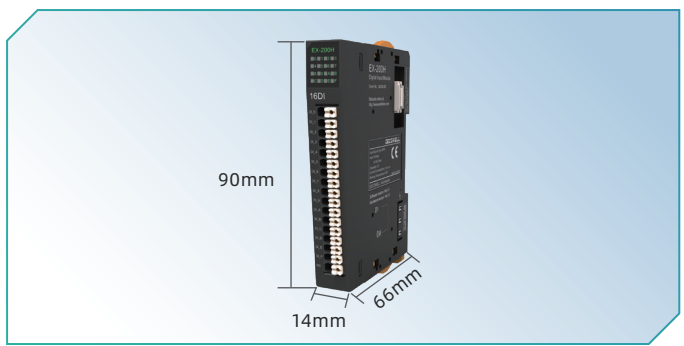


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Product size



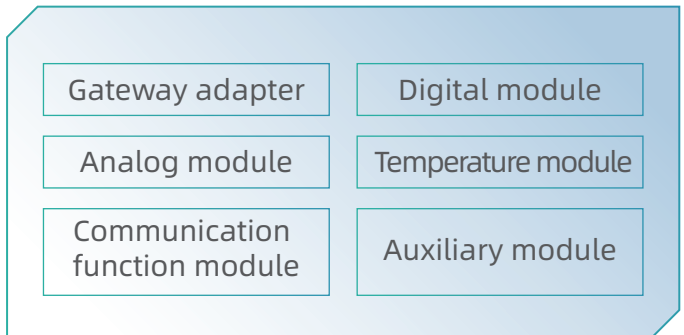
Product characteristics



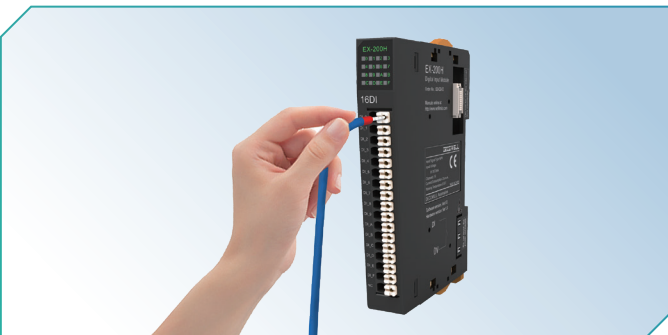
Small size and compact structure



Supports multiple communication protocols

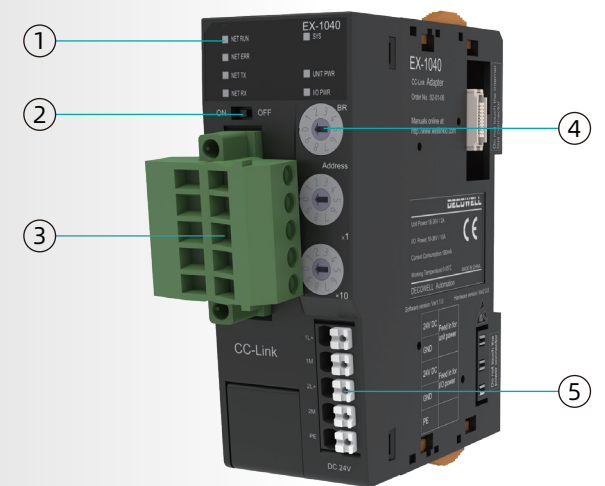


Abundant product types

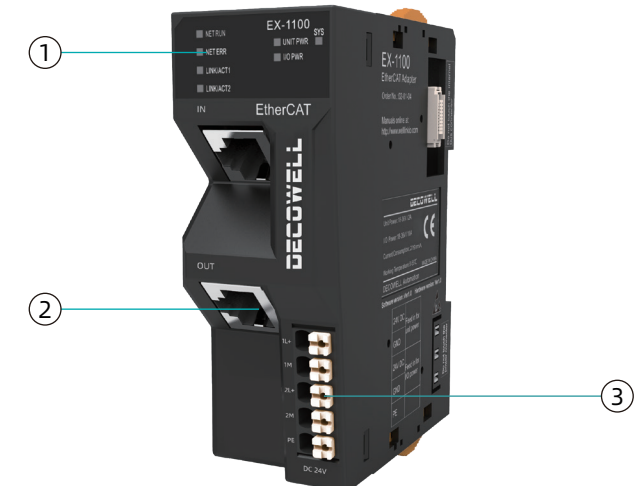


Straight plug terminals, quick installation

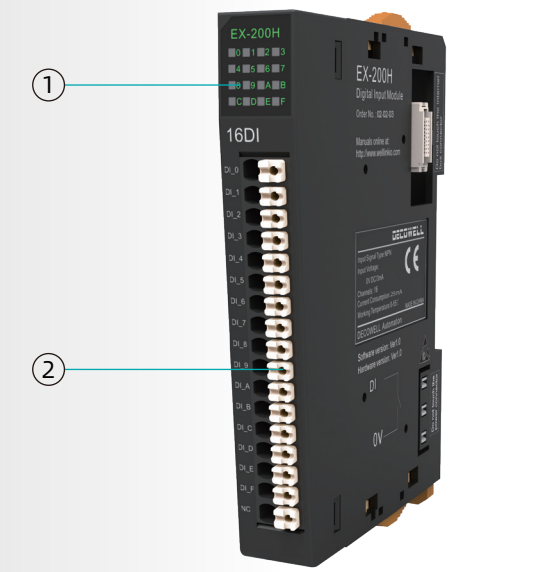
Interface port description



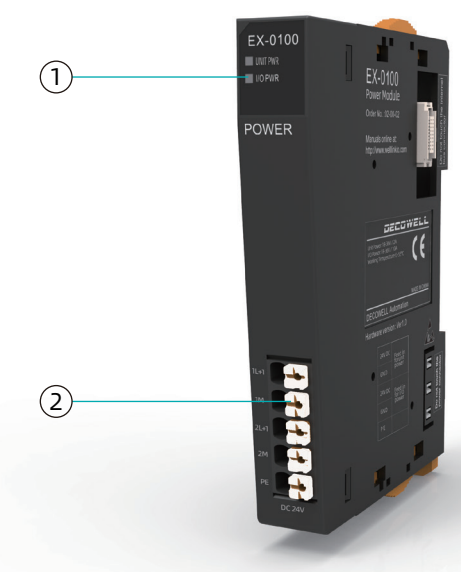
- ① Status indicator
- ② Terminal resistance Dial switch
- ③ Communication interface port
- ④ Adapter Dial setting
- ⑤ Power supply port



- ① Status indicator
- ② Communication interface port
- ③ Power supply port



- ① Status indicator
- ② Wiring terminal



- ① Power indicator
- ② Wiring terminal

 Product parameter

Adapter

Product model	EX-1010	EX-1020	EX-1030
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Product name	DeviceNET Adapter	PROFIBUS-DP Adapter	MODBUS-RTU Adapter
Address setting	0~63	0~125	0~99
Cable	DeviceNet special cable	PROFIBUS-DP special cable	MODBUS-RTU special cable
Transmission distance	500m(max)	1200m(max)	1200m(max)
Bus rate	125kpbs、250kpbs、500kpbs	9.6kpbs ~ 12Mbps	RS485 Baud rate optional 1200、2400、4800、9600、19.2k、 28.8k、38.4k、57.6k、115.2k
EX System power input	24VDC(±25%)	24VDC(±25%)	24VDC(±25%)
EX System provides current	2A(Max)	2A(Max)	2A(Max)
IO port power supply input	24VDC(±20%)	24VDC(±20%)	24VDC(±20%)
IO port current output	10A (Max) 5A at High Temperature	10A (Max) 5A at High Temperature	10A (Max) 5A at High Temperature
Expand the number of I/ O	32	32	32
Input/output maximum bytes	512 bytes /512 bytes	244 bytes / 244 bytes	512 bytes /512 bytes
Dimensions	Length, width and height: 90mm*67mm*34mm	Length, width and height: 90mm*67mm*34mm	Length, width and height: 90mm*67mm*34mm
Temperature range	Working temperature: -20~55℃ Storing temperature: -40~85℃	Working temperature: -20~55℃ Storing temperature: -40~85℃	Working temperature: -20~55℃ Storing temperature: -40~85℃
Relative humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-01-01	02-01-02	02-01-03

Product model	EX-1040	EX-1050
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Product name	CC-Link Adapter	CANopen Adapter
Address setting	1~64	1 ~ 99 (DIP Switch Setting)
Cable	CC-Link special cable	CANopen special cable
Transmission distance	1200m(max)	1000m (Depends on the cable and communication rate)
Bus rate	156kpbs、625kpbs、2.5Mbps、 5Mbps、10Mbps	10kpbs,20kpbs,50kpbs,100kpbs,125kpbs,250kpbs, 500kpbs,1000kpbs
EX System power input	24VDC(±25%)	24VDC(±25%)
EX System provides current	2A(Max)	2A(Max)
IO port power supply input	24VDC(±20%)	24VDC(±20%)
IO port current output	10A (Max) 5A at High Temperature	10A (Max) 5A at High Temperature
Expand the number of I/ O	32	32
Input/output maximum bytes	128 bytes /128 bytes	512 bytes/512 bytes
Dimensions	Length, width and height: 90mm*67mm*34mm	Length, width and height: 90mm*67mm*34mm
Temperature range	Working temperature: -20~55℃ Storing temperature: -40~85℃	Working temperature: -20~55℃ Storing temperature: -40~85℃
Relative humidity	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20
Order number	02-01-06	02-01-11

Adapter

Product model	EX-1100	EX-1102
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Product name	EtherCAT Adapter	EtherCAT Adapter
Address setting	Per main station	Per main station
Cable	Five types of twisted pair	Five types of twisted pair
Transmission distance	100m (Interstation Distance)	100m (Interstation Distance)
Bus rate	100Mbps	100Mbps
EX System power input	24VDC(±25%)	24VDC(±25%)
EX System provides current	2A(Max)	2A(Max)
IO port power supply input	24VDC(±20%)	24VDC(±20%)
IO port current output	10A (Max) 5A at High Temperature	10A (Max) 5A at High Temperature
Expand the number of I/ O	32	32
Input/output maximum bytes	1024bytes/1024bytes	1024bytes/1024bytes
Dimensions	Length, width and height: 90mm*67mm*34mm	Length, width and height: 90mm*67mm*34mm
Temperature range	Working temperature: -20 ~ 55°C Storing temperature: -40 ~ 85°C	Working temperature: -20 ~ 55°C Storing temperature: -40 ~ 85°C
Relative humidity	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20
Order number	02-01-04	02-01-04-2

Product model	EX-1110	EX-1121
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Product name	PROFINET Adapter	EtherNet/IP Adapter
Address setting	Per main station	Dial switch settings
Cable	Five types of twisted pair	Five types of twisted pair
Transmission distance	100m (Interstation Distance)	100m (Interstation Distance)
Bus rate	100Mbps	100Mbps
EX System power input	24VDC(±25%)	24VDC(±25%)
EX System provides current	2A(Max)	2A(Max)
IO port power supply input	24VDC(±20%)	24VDC(±20%)
IO port current output	10A (Max) 5A at High Temperature	10A (Max) 5A at High Temperature
Expand the number of I/ O	32	32
Input/output maximum bytes	1015bytes/1015bytes	504bytes/504bytes
Dimensions	Length, width and height: 90mm*67mm*34mm	Length, width and height: 90mm*67mm*34mm
Temperature range	Working temperature: -20 ~ 55°C Storing temperature: -40 ~ 85°C	Working temperature: -20 ~ 55°C Storing temperature: -40 ~ 85°C
Relative humidity	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20
Order number	02-01-05	02-01-08-1

Adapter

Product model	EX-1130	EX-1140
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Product name	Modbus- TCP Adapter	CC-Link IEFB Adapter
Address setting	Based on the Master Station	Based on the Master Station
Cable	Five types of twisted pair	Five types of twisted pair
Transmission distance	100m (Interstation Distance)	100m (Interstation Distance)
Bus rate	100Mbps	100Mbps
EX System power input	24VDC(±25%)	24VDC(±25%)
EX System provides current	2A(Max)	2A(Max)
IO port power supply input	24VDC(±20%)	24VDC(±20%)
IO port current output	10A (Max) 5A at High Temperature	10A (Max) 5A at High Temperature
Expand the number of I/ O	32	32
Input/output maximum bytes	512bytes/512bytes	RX/RY 256 points and RWr/RWw 128 points
Dimensions	Length, width and height: 90mm*67mm*34mm	Length, width and height: 90mm*67mm*34mm
Temperature range	Working temperature: -20~55°C Storing temperature: -40~85°C	Working temperature: -20~55°C Storing temperature: -40~85°C
Relative humidity	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20
Order number	02-01-07	02-01-09

Digital input module

Product model	EX-2008	EX-2108	EX-200H
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Product name	8- channel input module NPN	8- channel input module PNP	16- channel input module NPN
Current Consumption	Max 18mA	Max 17mA	Max 29mA
Number of Input Channel	8	8	16
Input Signal Type	NPN	PNP	NPN
Rated Input Voltage	24VDC(±25%)	24VDC(±25%)	24VDC(±25%)
Input logic 1 signal	-3 ~ 5V	15 ~ 30V	-3 ~ 5V
Input logic 0 signal	15 ~ 30V	-3 ~ 5V	15 ~ 30V
Sensor power supply	—	—	—
Debounce time	Configurable :1 ~ 10ms, Default :3ms	Configurable :1 ~ 10ms, Default :3ms	Configurable :1 ~ 10ms, Default :3ms
Isolated withstand voltage	500V	500V	500V
Isolation mode	Optocoupler isolation	Optocoupler isolation	Optocoupler isolation
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55°C	-20 ~ 55°C	-20 ~ 55°C
Storing Temperature	-40 ~ 85°C	-40 ~ 85°C	-40 ~ 85°C
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-02-01	02-02-02	02-02-03

Digital input module

Product model	EX-210H	EX-202H	EX-212H	EX-2C0S
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Product name	16-channel input module PNP	16-channel Digital Input Module, NPN (Last 2 digits configurable for High-Speed Counting)	16-channel Digital Input Module, PNP (Last 2 digits configurable for High-Speed Counting)	32-Channel Digital Input Module, NPN & PNP Compatible
Current Consumption	Max 20mA	Max 38mA	Max 40mA	Max 29mA
Number of Input Channel	16	16	16	32
Input Signal Type	PNP	NPN	PNP	NPN & PNP Compatible
Rated Input Voltage	24VDC(±25%)	24VDC(±25%)	24VDC(±25%)	24VDC(±25%)
Input logic 1 signal	15 ~ 30V	-3 ~ 5V	15 ~ 30V	PNP:15~30V / NPN:-3~5V
Input logic 0 signal	-3 ~ 5V	15 ~ 30V	-3 ~ 5V	PNP:-3~5V / NPN:15~30V
Sensor power supply	—	—	—	24V/200mA(max)
Debounce time	Configurable :1 ~ 10ms, Default :3ms	Configurable :1 ~ 10ms, Default :3ms	Configurable :1 ~ 10ms, Default :3ms	Configurable :1 ~ 10ms, Default :3ms
Isolated withstand voltage	500V	500V	500V	500V
Isolation mode	Optocoupler isolation	Optocoupler isolation	Optocoupler isolation	Optocoupler isolation
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55°C	-20 ~ 55°C	-20 ~ 55°C	-20 ~ 55°C
Storing Temperature	-40 ~ 85°C	-40 ~ 85°C	-40 ~ 85°C	-40 ~ 85°C
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20	IP20
Order number	02-02-04	02-02-08	02-02-09	02-02-05

Product model	EX-2018	EX-2118	EX-2C3S
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Product name	8-channel Digital Input Module, NPN Type (2-wire/3-wire)	8-channel Digital Input Module, PNP Type (2-wire/3-wire)	32-channel Digital Input Module, PNP/NPN Compatible
Current Consumption	Max 13mA	Max 13mA	Max 22mA
Number of Input Channel	8	8	32
Input Signal Type	NPN	PNP	PNP&NPN compatible
Rated Input Voltage	24VDC(±25%)	24VDC(±25%)	24VDC(±25%)
Input logic 1 signal	-3 ~ 5V	15 ~ 30V	PNP:15 ~ 30V / NPN:-3 ~ 5V
Input logic 0 signal	15 ~ 30V	-3 ~ 5V	PNP:-3 ~ 5V / NPN:15 ~ 30V
Sensor power supply	24V/2000mA(max)	24V/200mA(max)	24V/200mA(max)
Debounce time	Configurable :1 ~ 10ms Default :3ms	Configurable :1 ~ 10ms Default :3ms	Configurable :1 ~ 10ms Default :3ms
Isolated withstand voltage	500V	500V	500V
Isolation mode	Optocoupler isolation	Optocoupler isolation	Optocoupler isolation
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55°C	-20 ~ 55°C	-20 ~ 55°C
Storing Temperature	-40 ~ 85°C	-40 ~ 85°C	-40 ~ 85°C
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-02-06	02-02-07	02-02-20

Digital input module

Product model	EX-203S	EX-213S
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Product name	32-Channel Digital Input Module, NPN Type	32-Channel Digital Input Module, PNP Type
Current Consumption	Max 29mA	Max 28mA
Number of Input Channel	32	32
Input Signal Type	NPN	PNP
Rated Input Voltage	24VDC(±25%)	24VDC(±25%)
Input logic 1 signal	-3 ~ 5V	15 ~ 30V
Input logic 0 signal	15 ~ 30V	-3 ~ 5V
Sensor power supply	—	—
Debounce time	Configurable :1 ~ 10ms, Default :3ms	Configurable :1 ~ 10ms, Default :3ms
Isolated withstand voltage	500V	500V
Isolation mode	Optocoupler isolation	Optocoupler isolation
Dimensions	Length, width and height: 90mm*67mm*29mm	Length, width and height: 90mm*67mm*29mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20
Order number	02-02-17	02-02-18

Digital output module

Product model	EX-3008	EX-3108	EX-300H
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Product name	8-Channel Digital Output Module, NPN Type	8-Channel Digital Output Module, PNP Type	16-Channel Digital Output Module, NPN Type
Current Consumption	Max 42mA	Max 11mA	Max 71mA
Number of Output Channel	8	8	16
Output type	NPN	PNP	NPN
Single-channel Rated Current	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)
Load type	Resistive load, inductive load, lamp load	Resistive load, inductive load, lamp load	Resistive load, inductive load, lamp load
Isolated withstand voltage	500V	500V	500V
Isolation mode	Optocoupler isolation	Optocoupler isolation	Optocoupler isolation
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-03-01	02-03-02	02-03-03

Digital output module

Product model	EX-310H	EX-300S	EX-310S
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Product name	16-Channel Digital Output Module, PNP Type	32-Channel Digital Output Module, NPN Type	32-Channel Digital Output Module, PNP Type
Current Consumption	Max 71mA	Max 22mA	Max 22mA
Number of Output Channel	16	32	32
Output type	PNP	NPN	PNP
Single-channel Rated Current	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)
Load type	Resistive load, inductive load, lamp load	Resistive load, inductive load, lamp load	Resistive load, inductive load, lamp load
Isolated withstand voltage	500V	500V	500V
Isolation mode	Optocoupler isolation	Optocoupler isolation	Optocoupler isolation
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-03-04	02-03-06	02-03-07

Product model	EX-3018	EX-3118	EX-3208
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Product name	8-Channel Digital Output Module, NPN Type (2W)	8-Channel Digital Output Module, PNP Type (2W)	8-Channel Relay Output Module
Current Consumption	Max 42mA	Max 43mA	Max 45mA
Number of Output Channel	8	8	8
Output type	NPN	PNP	—
Single-channel Rated Current	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)	30VDC/2A,250VAC/0.5A
Load type	Resistive load, inductive load, lamp load	Resistive load, inductive load, lamp load	Resistive load, inductive load, lamp load
Isolated withstand voltage	500V	500V	500V
Isolation mode	Optocoupler isolation	Optocoupler isolation	Optocoupler isolation
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-03-08	02-03-09	02-03-05

Digital output module

Product model	EX-303S	EX-313S
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Product name	32 -digital output, output signal NPN	32 -digital output, output signal PNP
Current Consumption	Max 18mA	Max 18mA
Number of Output Channel	32	32
Output type	NPN	PNP
Single-channel Rated Current	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)	Max: 0.5A (Total Output Current of 8 Channels at the same time:2A)
Load type	Resistive load, inductive load, lamp load	Resistive load, inductive load, lamp load
Isolated withstand voltage	500V	500V
Isolation mode	Optocoupler isolation	Optocoupler isolation
Dimensions	Length, width and height: 90mm*67mm*29mm	Length, width and height: 90mm*67mm*29mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20
Order number	02-03-18	02-03-19

Analog input module

Product model	EX-4014	EX-4114	EX-4054
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Product name	4-channel Analog Input Module, 0-10V/0-5V, 12-bit, 1% Accuracy	4-channel Analog Input Module, ±10V/±5V, 12-bit, 1% Accuracy	4-channel Analog Input Module, 0-10V/0-5V, 16-bit, 0.5% Accuracy
Current Consumption	Max 17mA	Max 17mA	Max 58mA
Number of Input Channel	4	4	4
Analog range	0-10V/0-5V	±10V/±5V	0-10V/0-5V
Filtering grade	Configurable:0-3, Default: 1	Configurable:0-3, Default: 1	Configurable:0-3, Default: 1
Input resistance	> 500kΩ	> 500kΩ	> 500kΩ
Resolution	12 bit	12bit	16bit
Precision	1%	1%	1%
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated
Corresponding code value	0-4095	-2048~+2047	0-65535
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-04-01/02-04-02	02-04-03/02-04-04	02-04-05/02-04-06

Product model	EX-4154	EX-4414	EX-4454
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Product name	4-channel Analog Input Module, ±10V/±5V, 16-bit, 0.5% Accuracy	4-channel Analog Input Module, 4-20mA/0-20mA, 12-bit, 1% Accuracy	4-channel Analog Input Module, 4-20mA/0-20mA, 16-bit, 0.5% Accuracy
Current Consumption	Max 66mA	Max 45mA	Max 22mA
Number of Input Channel	4	4	4
Analog range	±10V/±5V	0-20mA/4-20mA	0-20mA/4-20mA
Filtering grade	Configurable:0-3, Default: 1	Configurable:0-3, Default: 1	Configurable:0-3, Default: 1
Input resistance	> 500kΩ	100kΩ	100kΩ
Resolution	16bit	12bit	16bit
Precision	0.5%	1%	0.5%
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated
Corresponding code value	-32768-32767	0-4095	0-65535
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-04-07/02-04-08	02-04-09/02-04-10	02-04-11/02-04-12

Product model	EX-4018	EX-4118	EX-4418
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Product name	8-channel Analog Input Module, 0-10V/0-5V, 12-bit,1% Accuracy	8-channel Analog Input Module, ±10V/±5V, 12-bit, 1% Accuracy	8-channel Analog Input Module, 4-20mA/0-20mA, 12-bit, 1% Accuracy
Current Consumption	Max 20mA	Max 19mA	Max 74mA
Number of Input Channel	8	8	8
Analog range	0-10V/0-5V	±10V/±5V	0-20mA/4-20mA
Filtering grade	Configurable:0-3, Default: 1	Configurable:0-3, Default: 1	Configurable:0-3, Default: 1
Input resistance	> 500kΩ	> 500kΩ	100kΩ
Resolution	12bit	12bit	12bit
Precision	1%	1%	1%
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated
Corresponding code value	0-4095	-2048~+2047	0-4095
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-04-29/02-04-30	02-04-31/02-04-32	02-04-33/02-04-34

Analog output module

Product model	EX-5014	EX-5114	EX-5054
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Product name	4-channel Analog Output Module, 0-10V/0-5V, 12-bit, 1% Accuracy	4-channel Analog Output Module, ±10V/±5V, 12-bit, 1% Accuracy	4-channel Analog Output Module, 0-10V/0-5V, 16-bit, 0.5% Accuracy
Current Consumption	Max 16mA	Max 16mA	Max 16mA
Number of Output Channel	4	4	4
Analog range	0-10V/0-5V	±10V/±5V	0-10V/0-5V
Load type	Resistive load	Resistive load	Resistive load
Load capacity	> 1kΩ	> 1kΩ	> 1kΩ
Resolution	12bit	12bit	16bit
Precision	1%	1%	0.5%
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated
Corresponding code value	0-4095	-2048~+2047	0-65535
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-05-01/02-05-02	02-05-03/02-05-04	02-05-05/02-05-06

Product model	EX-5154	EX-5414	EX-5454
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Product name	4-channel Analog Output Module, ±10V/±5V, 16-bit, 0.5% Accuracy	4-channel Analog Output Module, 4-20mA/0-20mA, 12-bit, 1% Accuracy	4-channel Analog Output Module, 4-20mA/0-20mA, 16-bit, 0.5% Accuracy
Current Consumption	Max 16mA	Max 17mA	Max 17mA
Number of Output Channel	4	4	4
Analog range	±10V/±5V	0-20mA/4-20mA	0-20mA/4-20mA
Load type	Resistive load	Resistive load	Resistive load
Load capacity	> 1kΩ	< 500Ω	< 500Ω
Resolution	16bit	12bit	16bit
Precision	0.5%	1%	0.5%
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated
Corresponding code value	-32768~+32767	0-4095	0-65535
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-05-07/02-05-08	02-05-09/02-05-10	02-05-11/02-05-12

Product model	EX-5018	EX-5118	EX-5418
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Product name	8-channel Analog Output Module, 0-10V/0-5V, 12-bit, 1% Accuracy	8-channel Analog Output Module, ±10V/±5V, 12-bit, 1% Accuracy	8-channel Analog Output Module, 4-20mA/0-20mA, 12-bit, 1% Accuracy
Current Consumption	Max 19mA	Max 19mA	Max 15mA
Number of Output Channel	8	8	8
Analog range	0-10V/0-5V	±10V/±5V	0-20mA/4-20mA
Load type	Resistive load	Resistive load	Resistive load
Load capacity	> 1kΩ	> 1kΩ	< 500Ω
Resolution	12bit	12bit	12bit
Precision	1%	1%	1%
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated
Corresponding code value	0-4095	-2048~+2047	0-4095
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-05-13/02-05-14	02-05-15/02-05-16	02-05-17/02-05-18

Temperature module

Product model	EX-6488
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Product name	8 - channel temperature control module
Current Consumption	Max 33mA
Number of Output Channel	8
Input filtering	Configurable: 0 - 40, Default value: 10
Connection mode	2 - wire or 3 - wire system (3 - wire system is the default)
Sensor type	PT100
Temperature range	-200~800℃
Load type	Resistive load, inductive load, lamp load
Output Signal Type	PNP
Resolution	0.1℃
Precision	±1℃
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated
Dimensions	Length, width and height: 90mm*67mm*29mm
Working temperature/Storing Temperature	-20 ~ 55℃/-40 ~ 85℃
Relative Humidity	95% No Condensation
Protection grade	IP20
Order number	02-06-18

Product model	EX-4754	EX-4654
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Product name	4-channel RTD Input Module, 2-wire or 3-wire (Default 3-wire)	4-channel Thermocouple (TC) Input Module (2-wire)
Current Consumption	Max 30mA	Max 39mA
Number of Output Channel	4	4
Input filtering	Configurable: 1~40,Default:10	Configurable: 1~40,Default:10
Connection mode	2-wire or 3-wire system (default 3-wire)	2-wire
Sensor type	PT100,PT200,PT500,PT1000,Ni120	K,J,T,E,N,S,R,B,C,
Temperature range	Resistance measurement/-200~+800 degrees (PT sensor) -79~+309 degrees (Ni sensor)	Mv Voltage measurement/ Depending on the measurement range of each sensor Default Settings: Type K: -100 to +1370
Resolution	0.1°C	0.1°C
Precision	±1°C	±1°C
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature/Storing Temperature	-20 ~ 55°C/-40 ~ 85°C	-20 ~ 55°C/-40 ~ 85°C
Relative Humidity	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20
Order number	PT100 02-04-23 / PT200 02-04-24 PT500 02-04-25 / PT1000 02-04-26 Ni120 02-04-27 / Resistance measurement 02-04-28 KTY83-122 02-04-50 / KTY84-130 02-04-51	Type K 02-04-13 / Type S 02-04-18 / Type J 02-04-14 Type R 02-04-19 / Type T 02-04-15 / Type B 02-04-20 Type E 02-04-16 / Type C 02-04-21 / Type N 02-04-17 Voltage measurement02-04-22

Product model	EX-4654CI	EX-4658	EX-4754CI
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Product name	4-channel thermocouple (TC) input channel isolation module (two-wire system)	8-channel thermocouple (TC) input module (two-wire system)	4-channel resistance temperature detector (RTD) input channel isolation module, supporting two-wire or three-wire system (three-wire system is the default), PT100
Current Consumption	Max 73mA	Max 41mA	Max 60mA
Number of Output Channel	4	8	4
Input filtering	Configurable: 1~40,Default:10	Configurable: 1~40,Default:10	Configurable: 1~40,Default:10
Connection mode	two-wire system	two-wire system	Two-wire or three-wire system (The default is the three-wire system)
Sensor type	C、K	K	PT100
Channel isolation	support	—	support
Temperature range	mV voltage measurement / Depends on the measurement range of each sensor. Type K thermocouple: -100°C to +1370°C	mV voltage measurement. It depends on the measurement range of each sensor. The default setting is: Type K: -100~+1370	-200 to +800 degrees
Resolution	0.1°C	0.1°C	0.1°C
Precision	±1°C	±1°C	±1°C
Isolated withstand voltage	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated	The 500V channels on the field side and the digital side are not isolated
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature/Storing Temperature	-20 ~ 55°C/-40 ~ 85°C	-20 ~ 55°C/-40 ~ 85°C	-20 ~ 55°C/-40 ~ 85°C
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-04-47	02-04-41	02-04-A4

Function module

Product model	EX-6001	EX-6011	EX-6021
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Product name	Single channel NPN encoder module	Single channel PNP encoder module	Single channel differential encoder module
Current Consumption	Max 17mA	Max 37mA	Max 57mA
System power supply voltage	5V DC(±10%)	5V DC(±10%)	5V DC(±10%)
I/O power supply input voltage	24VDC(±20%)	24VDC(±20%)	24VDC(±20%)
Input Signal Type	Single-ended (NPN)	Single-ended (PNP)	differential
Counting mode	Linear counter form, Ring counter form	Linear counter form, Ring counter form	Linear counter form, Ring counter form
Counting range	0 ~ 4294967295or-2147483648 ~ 2147483648	0 ~ 4294967295or-2147483648 ~ 2147483648	0 ~ 4294967295or-2147483648 ~ 2147483648
Count function selection	Count disable, Latch counter, Sample counter, Cycle pulse counter	Count disable, Latch counter, Sample counter, Cycle pulse counter	Count disable, Latch counter, Sample counter, Cycle pulse counter
	Frequency, Rotation speed, Period measurement	Frequency, Rotation speed, Period measurement	Frequency, Rotation speed, Period measurement
	4294967295	4294967295	4294967295
Orthogonalencodermagnification	X1、X2、X4(Default X4)	X1、X2、X4(Default X4)	X1、X2、X4(Default X4)
Power supply input	5VDC(±10%)/150mA 24VDC(±10%)/400mA	5VDC(±10%)/150mA 24VDC(±10%)/400mA	5VDC(±10%)/150mA 24VDC(±10%)/400mA
Maximum input frequency	1MHz	1MHz	1MHz
Maximum connection distance of a signal cable	10M/2M	10M/2M	10M/2M
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature/Storing Temperature	-20 ~ 55℃/-40 ~ 85℃	-20 ~ 55℃/-40 ~ 85℃	-20 ~ 55℃/-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-06-01	02-06-02	02-06-03

Product model	EX-6002
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Product name	Dual - channel NPN encoder module
Current consumption	Max 58mA
Number of input channels	2
Encoder power supply	24V
Trigger signal	Low-Level Trigger
Counting mode	Linear Counter Mode, Ring Counter Mode
Counting range	0~4294967295or-2147483648~2147483647
Counting function selection	Z-Phase Zero Function, Preset Function, Compare Function, Latch Function
	Frequency Measurement Function, Counting Function, Disable Function
Maximum input frequency	1MHz
Pulse input mode	AB Quadrature (ABZ), Directional Pulse (Pul+Dir), Dual Pulse (CW/CCW)
Counting magnification setting	Single-phase Pulse (1x/2x), CW/CCW (1x), AB Quadrature (1x/2x/4x) - Default Single-phase Pulse 1x Mode
Input impedance	>500kΩ
Electrical isolation	Optocoupler Isolation
The maximum connection distance of the signal line	2m
Dimensions	Length, width and height: 90mm*67mm*14mm
Working temperature/Storing Temperature	-20 ~ 55℃/-40 ~ 85℃
Relative Humidity	95% No Condensation
Protection grade	IP20
Order number	02-06-21

Product model	EX-6301	EX-6311	EX-6321
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Product name	RS485 Communication module	RS232 free port communication module	Modbus-RTU
Current Consumption	Max 30mA	Max 30mA	Max 30mA
Input channel	1	1	1
Baud rate	optional: 1200, 2400, 4800, 9600 (Default), 19200, 38400, 57600, 115200kbps	optional: 1200, 2400, 4800, 9600 (Default), 19200, 38400, 57600, 115200kbps	optional: 1200, 2400, 4800, 9600 (Default), 19200, 38400, 57600, 115200kbps
Data bit	5,6,7,8 bit (Default)	8 bit	8 bit
Check bit	None (Default) ,Odd,Even	None (Default) ,Odd,Even	None (Default) ,Odd,Even
Stop bit	1 (Default) ,2 stop bits	1 (Default) ,2 stop bits	1 (Default) ,2 stop bits
Automatic timed sending function	Time interval optional: 50ms, 100ms, 200ms, 400ms, 500ms, 600ms, 800ms, 1s (Default) , 1.5s, 2s, 3s, 4s, 5s, 6s, 8s, 10s	Time interval optional: 50ms, 100ms, 200ms, 400ms, 500ms, 600ms, 800ms, 1s (Default) , 1.5s, 2s, 3s, 4s, 5s, 6s, 8s, 10s	nonsupport
Main-sub mode	Supported, Default main station mode	Supported, Default main station mode	Only the main station is supported
Response timeout	—	—	After the primary station sends a command, wait for the response time of the secondary station. The value ranges from 1 to 65535. The default value is 1000, in ms
Character spacing	—	—	Frame character interval detection time when receiving a message (the time of transmission of a single character depends on the baud rate) (Default is 5 characters)
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*14mm
Working temperature/ Storing Temperature	-20 ~ 55°C/-40 ~ 85°C	-20 ~ 55°C/-40 ~ 85°C	-20 ~ 55°C/-40 ~ 85°C
Relative Humidity	95% No Condensation	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20	IP20
Order number	02-06-12	02-06-13	02-06-14

Product model	EX-6031
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Product name	Single-channel SSI communication protocol module
Current Consumption	Max 19mA
Interface port protocol	SSI
Number of channels	1 channel SSI interface port encoder
Input signal type	SSI(Differential signal RS422)
Communication rate	≤2MHz(Can be set to 2 MHz or less (125 KHZ, 250 KHZ, 500 KHZ, 1 MHz and 1.5 MHz, 2 MHz)
Communication distance	Within 400m (depending on set communication frequency and encoder characteristics)
Communication cycle	Can be set to 1-65535 (unit 100us)
Encoder signal type	Differentiald signal, 5v
Data frame length	10-32 bits (configurable)
Positional value format	Supports gray code conversion to binary
Location value LSB/MSB	Configurable
DI function setting	Normal DI function and pulse capture function
DI capture mode	Rising edge capture, falling edge capture, bilateral edge capture
Dimensions	Length, width and height: 90mm*67mm*14mm
Working temperature/ Storing Temperature	-20 ~ 55°C/-40 ~ 85°C
Relative Humidity	95% No Condensation
Protection grade	IP20
Order number	02-06-17

Auxiliary module

Product model	EX-0100	EX-TER01
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Product name	System power supply and I/O power supply	Terminal module
EXSystem power supply voltage	24VDC(±25%)	
Output system voltage	5V±5%	
Output system current	max 2A	
I/O port power supply voltage	24VDC(±25%)	
I/O port output current	max:5A	
Dimensions	Length, width and height: 90mm*67mm*14mm	Length, width and height: 90mm*67mm*9mm
Working temperature	-20 ~ 55℃	-20 ~ 55℃
Storing Temperature	-40 ~ 85℃	-40 ~ 85℃
Relative Humidity	95% No Condensation	95% No Condensation
Protection grade	IP20	IP20
Order number	02-00-01	02-00-00

Attachment

Product name	Product appearance	Product model	Product description	Order number
power cable		BT04-100	40 - pin connection cable (1 - meter length)	10-02-00
Terminal Block		AT04F	40 - position terminal block	10-02-01



Product model quick reference table

Gateway Adapter

Product model	Product description	Order number
EX-1010	DeviceNET Adapter	02-01-01
EX-1020	PROFIBUS-DP Adapter	02-01-02
EX-1030	MODBUS-RTU Adapter	02-01-03
EX-1040	CC-Link Adapter	02-01-06
EX-1050	CANopen Adapter	02-01-11
EX-1100	EtherCAT Adapter	02-01-04
EX-1102	EtherCAT Adapter	02-01-04-2
EX-1110	PROFINET Adapter	02-01-05
EX-1120	EtherNet/IP Adapter	02-01-08
EX-1121	EtherNet/IP Adapter	02-01-08-1
EX-1130	Modbus-TCP Adapter	02-01-07
EX-1140	CC-Link IEFB Adapter	02-01-09

Digital input module

Product model	Product description	Order number
EX-2008	8DI(NPN)	02-02-01
EX-2108	8DI(PNP)	02-02-02
EX-200H	16DI(NPN,European terminal)	02-02-03
EX-210H	16DI(PNP,European terminal)	02-02-04
EX-202H	16DI(NPN)	02-02-08
EX-212H	16DI(PNP)	02-02-09

Digital input module

Product model	Product description	Order number
EX-2018	8DI(NPN supports 3-wire system and 2-wire system sensor)	02-02-06
EX-2118	8DI(PNP supports 3-wire system and 2-wire system sensor)	02-02-07
EX-2C0S	32 - channel digital input module with NPN & PNP compatibility	02-02-05
EX-203S	32 digital input, input signal NPN	02-02-17
EX-213S	32 digital input, input signal PNP	02-02-18

Digital output module

Product model	Product description	Order number
EX-3008	8DO(NPN)	02-03-01
EX-3108	8DO (PNP)	02-03-02
EX-300H	16DO(NPN,European terminal)	02-03-03
EX-310H	16DO(PNP,European terminal)	02-03-04
EX-300S	32 - channel digital output module, NPN type	02-03-06
EX-310S	32 - channel digital output module, PNP type	02-03-07
EX-3108	8DO (NPN, Support 2-wire system)	02-03-08
EX-3118	8DO (PNP, Support 2-wire system)	02-03-09
EX-3208	8DO (Relay (Remain ON))	02-03-05
EX-303S	32 digital output, output signal NPN	02-03-18
EX-313S	32 digital output, output signal PNP	02-03-19

Analog input module

Product model	Product description	Order number
EX-4014	4-channel 12-bit voltage analog input (0-10V/0-5V)	02-04-01 02-04-02

Analog input module

Product model	Product description	Order number
EX-4114	4-channel 12-bit voltage analog input (±10V/±5V)	02-04-03 02-04-04
EX-4054	4- channel 16-bit voltage analog input (0-10V/0-5V)	02-04-05 02-04-06
EX-4154	4- channel 16-bit voltage analog input (±10V/±5V)	02-04-07 02-04-08
EX-4414	4-channel 12-bit current analog input (4-20mA/0-20mA)	02-04-09 02-04-10
EX-4454	4- channel 16-bit current analog input (4-20mA/0-20mA)	02-04-11 02-04-12
EX-4018	8-channel 12-bit voltage analog input (0-10V/0-5V)	02-04-29 02-04-30
EX-4118	8-channel 12-bit voltage analog input (±10V/±5V)	02-04-31 02-04-32
EX-4418	8-channel 12-bit current analog input (4-20mA/0-20mA)	02-04-33 02-04-34

Analog Output Module

Product model	Product description	Order number
EX-5014	4- channel 12-bit voltage analog output (0-10V/0-5V)	02-05-01 02-05-02
EX-5114	4- channel 12-bit voltage analog output (±10V/±5V)	02-05-03 02-05-04
EX-5054	4- channel 16-bit voltage analog output (0-10V/0-5V)	02-05-05 02-05-06
EX-5154	4- channel 16-bit voltage analog output (±10V/±5V)	02-05-07 02-05-08
EX-5414	4- channel 12-bit current analog output (4-20mA/0-20mA)	02-05-09 02-05-10
EX-5454	4- channel 16-bit current analog input (4-20mA/0-20mA)	02-05-11 02-05-12
EX-5018	8-channel 12-bit voltage analog output (0-10V/0-5V)	02-05-13 02-05-14

Analog output module

Product model	Product description	Order number
EX-5118	8-channel 12-bit voltage analog output (±10V/±5V)	02-05-15 02-05-16
EX-5418	8-channel 12-bit current analog output (4-20mA/0-20mA)	02-05-17 02-05-18

Temperature module

Product model	Product description	Order number
EX-4754	Thermal resistance (RTD) input module(PT100)	02-04-23
	Thermal resistance (RTD) input module(PT200)	02-04-24
	Thermal resistance (RTD) input module(PT500)	02-04-25
	Thermal resistance (RTD) input module(PT1000)	02-04-26
	Thermal resistance (RTD) input module(NI120)	02-04-27
	Thermal resistance (RTD) input module(Resistance measurement)	02-04-28
	4-channel thermal resistance (KTY) input module 2-wire or 3-wire system(Default 3-wire) KTY83-122, -55~175°C	02-04-50
EX-4654	4-channel thermal resistance (KTY) input module 2-wire or 3-wire system (Default 3-wire) KTY84-130, -40-250°C	02-04-51
	Thermocouple (TC) input module (Type K)	02-04-13
	Thermocouple (TC) input module (Type S)	02-04-18
	Thermocouple (TC) input module (Type J)	02-04-14
	Thermocouple (TC) input module (Type R)	02-04-19
	Thermocouple (TC) input module (Type T)	02-04-15
	Thermocouple (TC) input module (Type B)	02-04-20
	Thermocouple (TC) input module (Type E)	02-04-16
	Thermocouple (TC) input module (Type C)	02-04-21
	Thermocouple (TC) input module (Type N)	02-04-17
	Thermocouple (TC) input module (Voltage measurement)	02-04-22

Product model	Product description	Order number
EX-4654CI	4 - channel thermocouple (TC) input channel isolation module (2 - wire system), type K	02-04-47
EX-4754CI	4-channel Resistance Temperature Detector (RTD) Input Channel Isolation Module, 2-wire or 3-wire System (3-wire System as Default), PT100	02-04-A4
EX-6488	8-channel temperature control module	02-06-18
EX-4658	8 - channel thermocouple (TC) input module (2 - wire system), type K	02-04-41

Function module

Product model	Product description	Order number
EX-6001	Single channel NPN encoder module	02-06-01
EX-6002	Dual - channel NPN encoder module	02-06-21
EX-6011	Single channel PNP encoder module	02-06-02
EX-6021	Single channel differential encoder module	02-06-03
EX-6301	RS485 communication module	02-06-12
EX-6311	RS232 free port communication module	02-06-13
EX-6321	Modbus-RTU master communication module	02-06-14
EX-6031	Single-channel SSI communication protocol module	02-06-17

Auxiliary module

Product model	Product description	Order number
EX-0100	System power supply and I/O module	02-00-01
EX-TER01	Terminal module	02-00-00

Accessory

Product model	Product description	Order number
BT04-100	40 - pin connection cable (1 meter)	10-02-00
AT04F	40-position terminal block	10-02-01

Selection examples :

Bus PROFINET+ Extended digital input 16DI (NPN) + extended digital output 16DO (PNP) + Terminal cover plate EX-1110+EX200H+EX300H+EX-TER01