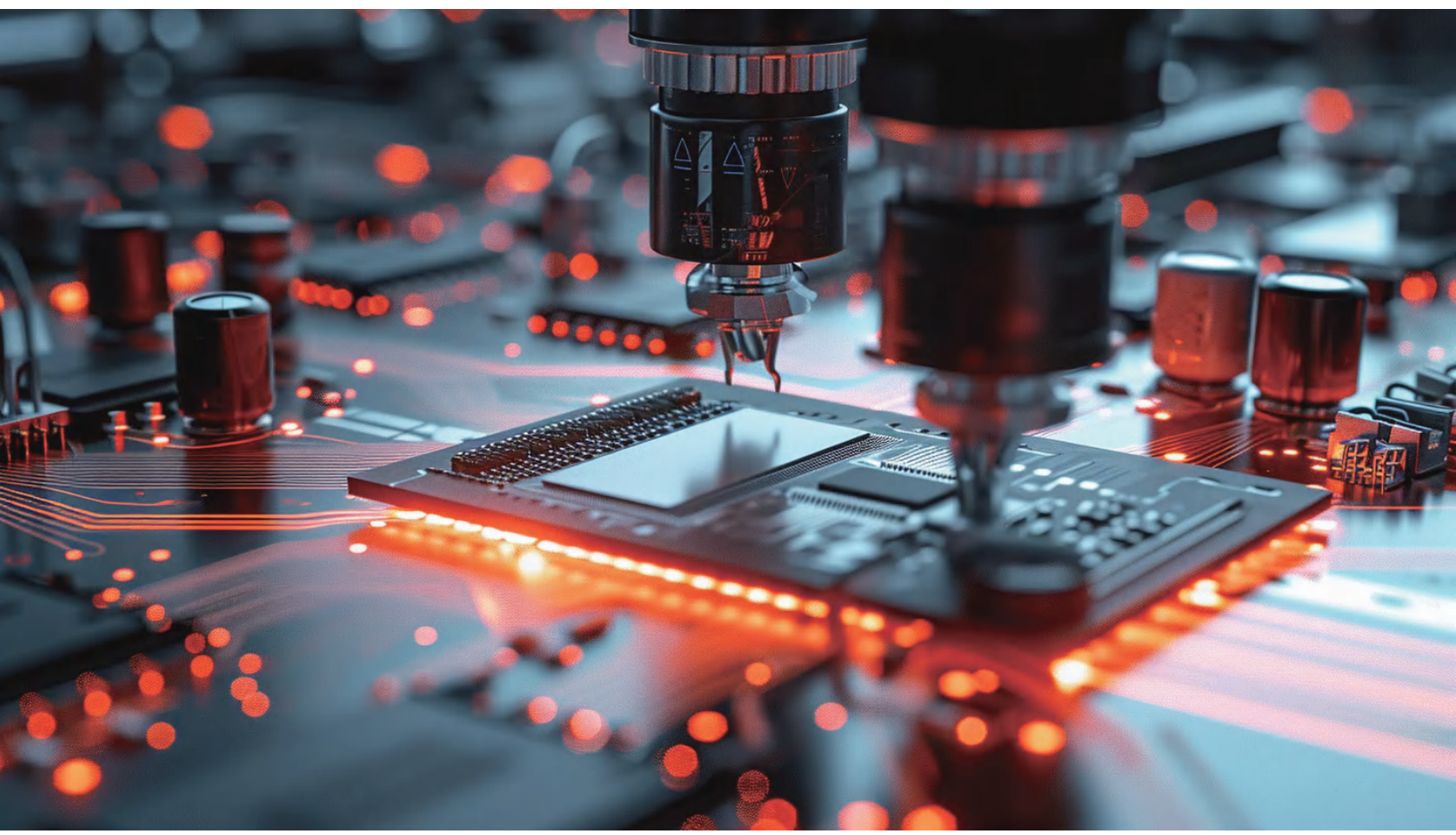
LATCOS
Hunt For Tech Brilliance

Distributed I/O & Bus Solution Provider

- Product Selection Manual -



- Integrated IO
- Extensible I/O
- Industrial Gateway
- Industrial Switch
- Power Supplier
- Cable & Connector

WUXI LATCOS AUTOMATION TECHNOLOGY CO. LTD.

Innovate R&D Win-win Service

About Us

Wuxi Latcos Automation Technology Co., Ltd. was established in 2015. The company is located in the Digital Industrial Park of Huishan Economic Development Zone, Wuxi City, Jiangsu Province. It has been awarded the title of National High-tech Enterprise Titles. The company has obtained over 30 intellectual property rights. The company has been dedicated to the design, R&D, and sales of industrial bus technology products for the past ten years.It also provides professional technical services and is a domestic provider of distributed IO products and bus product solutions with strong capabilities.

Our core products mainly include various **distributed IO modules, industrial gateways, industrial switches, etc.,** which are widely used in laser equipment, lithium battery equipment, semiconductor equipment, medical equipment, robots, automotive parts equipment, 3C equipment, numerical control systems, environmental protection engineering, chemical production equipment, etc. Over the past ten years, there have been provided the products and services to thousands of automation users, and have won the recognition of a wide range of users with high-quality products and a professional technical team. We take "Advanced intelligent manufacturing" as our core of development with a focus on industry innovation, we are committed to replacing high-end imported technologies and persistently create various high-performance products that meet the needs of industrial upgrading in order to help users reduce costs and increase efficiency, and enhance the competitiveness of their products.

2015 FOUNDING

30+ CERTIFICATE

2000+ CUSTOMER

400+ PRODUCTS

Hunt For Tech Brilliance

CONTENTS

LATCOS
Hunt For Tech Brilliance

LATCOS
Hunt For Tech Brilliance

Distributed I/O Product Family Based On PLC Fieldbus

Compatible with 95% of the mainstream PLC brands

BECKHOFF

ROCKWELL

KEYENCE

SIEMENS

MITSUBISHI

OMRON

INOVANCE

XINJE

ROBOTS

9 **PENA SERIES**
Unmanaged Industrial Switches

PROFINET

PROFINET

PROFINET

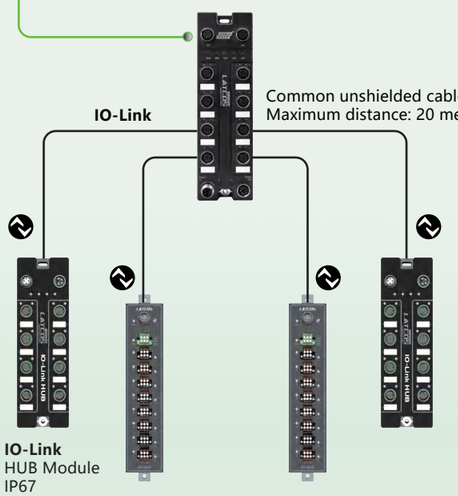
PROFINET

PROFINET

3 **IO-Link SERIES**
Master Module IP67

IO-Link

Common unshielded cable
Maximum distance: 20 meters

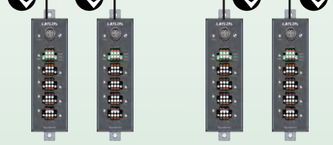


IO-Link
HUB Module
IP67

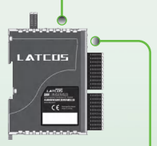
IO-Link
HUB Module
IP20

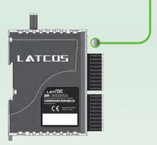
1 **LAMINA SERIES**
Slice Type Multi-Function Distributed I/O IP20

IO-Link IO-Link



2 **Rx SERIES**
Horizontal Multi-Function Distributed I/O
IP20





4 **SRX SERIES**
Vertical Multi-Function
Distributed I/O IP20

5 **JP SERIES**
Fency Screw Type
Distributed I/O IP20

6 **MR□ SERIES**
Panel Type Fast Wiring
Distributed I/O IP20

7 **STORM67 SERIES**
High Protection Field
Distributed I/O

8 **APG SERIES**
Industrial Gateway
IP50

RS485
RS232
USB

Temperature control, pressure, weighing and other types of instruments or sensors

Inverter

Barcode Scanner

Electronic Screen

-Extensible I/O-

-Integrated I/O-

Support Multiple Open Bus/Ethernet Communication Protocols

PROFINET | EtherNet/IP | CC-Link IE FieldBasic | EtherCAT | IO-Link | Modbus TCP | Modbus RTU

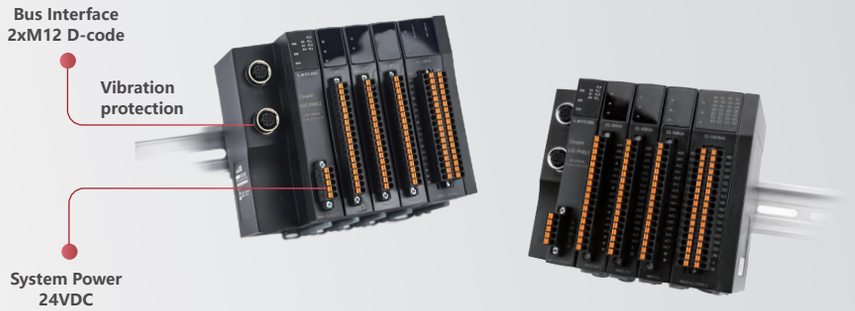
01 Suitable For Medium & Large-scale Distributed I/O Systems

Extensible LAMINIA series

Slice Type Multi-Function Distributed I/O

LAMINA series

Slice Type Multi-Function Distributed I/O

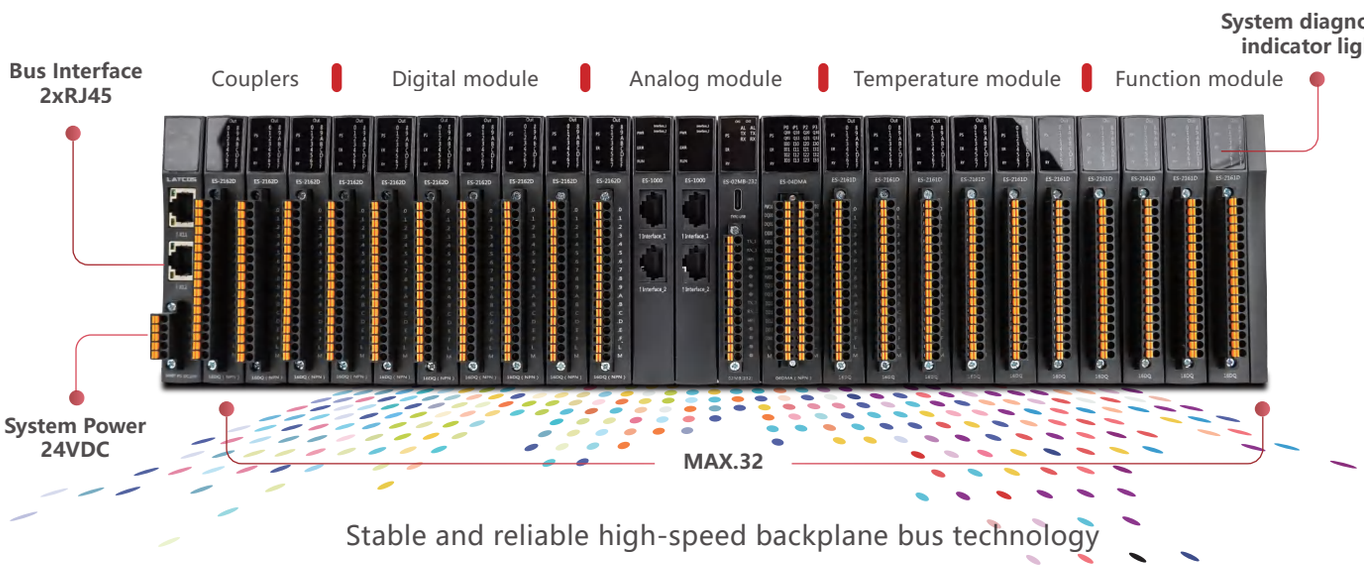


Flexible Expansion | Intelligent Diagnosis | High-speed Backplane | Slim Design

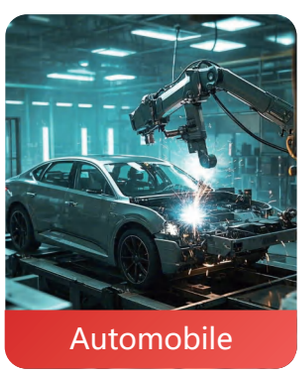
Product Feature

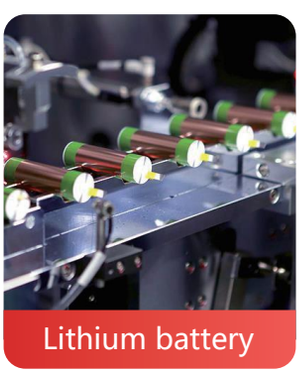
The LAMINA series is a distributed I/O product with more prominent functions. It features a compact design and is equipped with high-quality PUSH-IN terminal blocks from DINKLE. It can be installed in cabinets, with each module having a width of only 17mm. It adopts self-developed high-speed backplane bus technology, with a maximum response time of 400μs and the ability to expand up to 32 modules. It supports 5 communication protocols and 32 specifications of expansion modules, meeting the requirements of various systems. It is compatible with medium and large-sized PLC control systems such as Siemens, AB, Beckhoff, Keyence, Schneider, Omron, Mitsubishi, Inovance, and DSC.

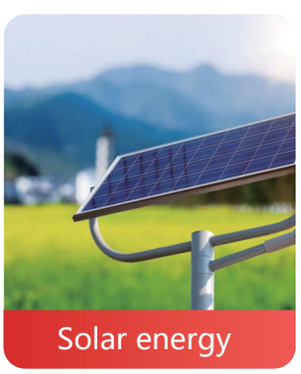
Product Appearance



Application Scene


Automobile


Lithium battery


Solar energy


Armarium

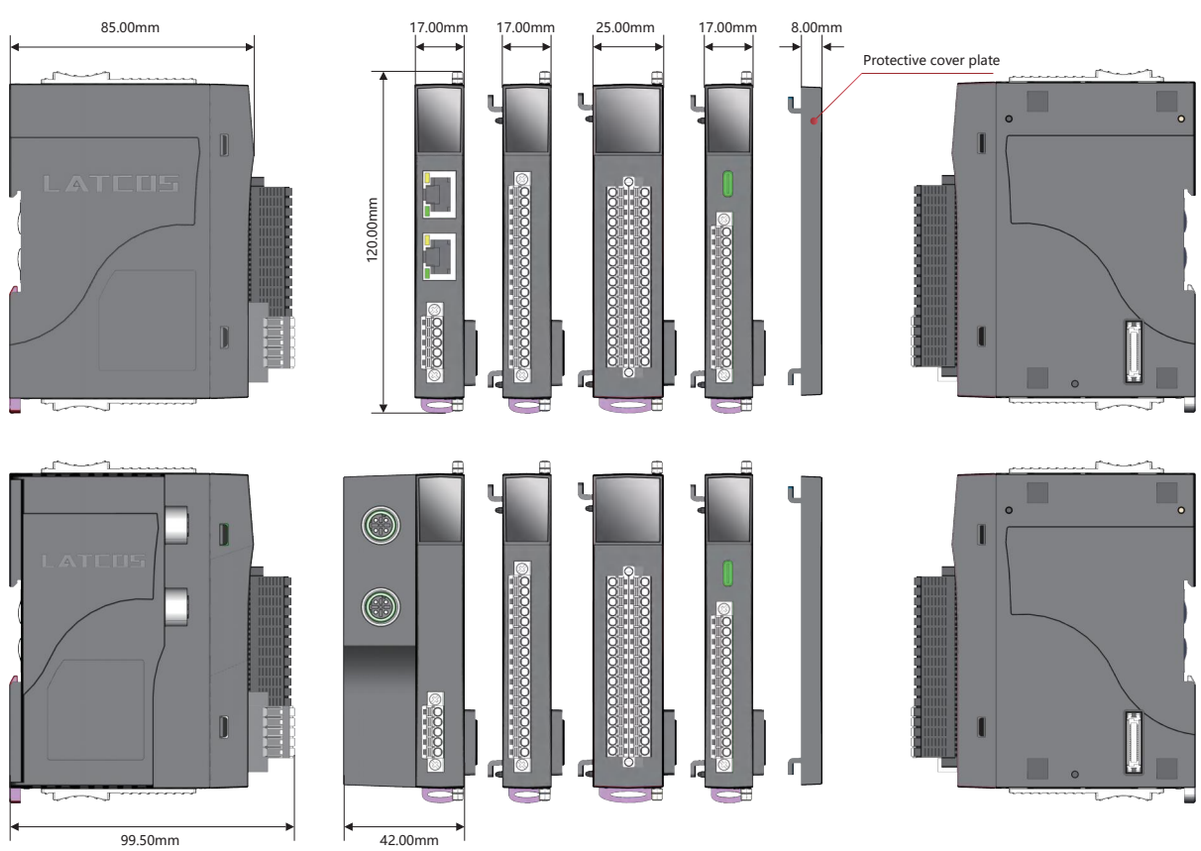
Coupler General Parameters

Power interface	Plug-in type 5Pin spring terminal (with locking function)
Nominal voltage	24VDC(-15%~+20%)
Operating current	100mA
Communication rate	100Mbps, self-adaption
Max. expansion quantity	32
I/O capacity	Max. 512 Byte (Input) Max. 512 Byte (Output)
Backplane voltage	24VDC
Backplane current	Max. 2A
Expansion interface	2x20P board-to-board connectors
Communication status	Via the main station software and LED lights
Short-circuit and overload protection	√
Fault diagnosis	Through the main station software and LED lights
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

Expansion Module General Parameters

System power	Provide by the coupler
Operating current	20mA
Protection class	IP20
Installation method	DIN35
Operating temperature	-20℃~+75℃

Overall size



Coupler Communication Parameters

PROFINET

Model	LUC-PNB	LUC-PNB12
Appearance		
Bus interface	2xRJ45，support cascading	2xM12，D-Code，support cascading
Protocal	PROFINET RT	
Addressing	Configuration via PROFINET master station software	

EtherNet/IP

Model	LUC-EPB	LUC-EPB12
Appearance		
Bus interface	2xRJ45，support cascading	2xM12，D-Code，support cascading
Protocal	EtherNet/ IP	
Addressing	Set the IP address via the LAE_Config software	

CC-Link IE FieldBasic

Model	LUC-CEB	LUC-CEB12
Appearance		
Bus interface	2xRJ45，support cascading	2xM12，D-Code，support cascading
Protocal	CC-Link IE FieldBasic	
Addressing	Set the IP address via the LAE_Config software (Download via the company website)	

EtherCAT

Model	LUC-EAB	LUC-EAB12
Appearance		
Bus interface	2xRJ45，support cascading	2xM12，D-Code，support cascading
Protocal	EtherCAT	
Addressing	Set the station number through the EtherCAT master station software	

Modbus TCP

Model	LUC-MTB	LUC-MTB12
Appearance		
Bus interface	2xRJ45，support cascading	2xM12，D-Code，support cascading
Protocal	Modbus TCP	
Addressing	Set the IP address via the LAE_Config software (Download via the company website)	

Expansion Modules Specification Parameters

Digital input module

Model	ES-1160D	ES-1320D
Appearance		
Input channel	16	32
Input type	PNP&NPN	
Nominal voltage	24VDC (-15%~+20%)	
“1” signal	15~30V	
“0” signal	-3~5V	
Input filter	Min.2ms(Factory default 5ms)	
Electric isolation	500VDC between the input and the internal communication	
Wiring type	2-wire or 3-wire	

Digital output module (Transistor)

Model	ES-2161D	ES-2162D	ES-2321D	ES-2322D	ES-2041D	ES-2042D
Appearance						
Output Channel	16		32		4	
Output type	PNP	NPN	PNP	NPN	PNP	NPN
Nominal voltage	24VDC (-15%~+20%)					
Nominal current	Max. 0.5A per channel (Short-circuit and overload protection)				Max.2A per channel(Short-circuit protection)	
Load type	Resistive load, inductive load, and lamp load					
Electric isolation	Optocoupler,500VDC between the output and the internal communication					
Wiring tpye	2-wire					

Digital output module (Relay)

Model	ES-2083D	ES-2163D
Appearance		
Output Channel	8	16
Output type	Relay	
Load type	Resistive load, inductive load, and lamp load	
Switching current	Max.5A	
Switching voltage	Max.250VAC/30VDC	
Switching power	Max.1250VA/150W	
Electrical durability	$1x10^5$ times(AgNi+overgild，0.5A 125VAC，Resistive load，40℃，1s on 9s off)	
Electric isolation	Optocoupler,500VDC between the output and the internal communication	
Wiring tpye	2-wire	

Expansion Modules Specification Parameters

Analog input module

Model	ES-3081A	ES-3082A	ES-3043A
Appearance			
Input Channel	8	8	4
Input mode	Current mode	Voltage mode	Current&Voltage mode
Input range	0~20mA/4~20mA	0~10V/±10V	0~20mA/4~20mA/0~10V/±10V
ADC resolution	16bit (including symbols)		
Nominal voltage	24VDC (-15%~+20%)		
Input resistance	Current input≤125Ω，voltage input≥10MΩ		
Input Precision	±0.1%（full scale）		
Input Speed	1ms/time		
Off-line diagnosis	When the type is selected as 4~20 mA, the output is -27648		
Input filtering	Configurable		

Analog output module

Model	ES-4081A	ES-4082A	ES-4043A
Appearance			
Output Channel	8	8	4
Output mode	Current mode	Voltage mode	Current&Voltage mode
Output range	0~20mA/4~20mA	0~10V	0~20mA/4~20mA/0~10V
ADC resolution	16bit (including symbols)		
Nominal voltage	24VDC (-15%~+20%)		
Output resistance	Current output≤500Ω		
Output Precision	±0.1%（full scale）		
Output Speed	1ms/time		

Temperature acquisition module

Model	ES-3087A	ES-3047A	ES-3088A	ES-3048A
Appearance				
Input Channel	8	4	8	4
Wiring tpye	2-wire or 3-wire	2-wire or 3-wire	2-wire	
ADC Resolution	16bit (including symbols)			
Input Speed	500ms/time			
Input Precision	±0.5℃（full scale）			
Input filtering	Configurable			
Sensor types	PT100，Cu50		K,S,R,B,J,N,E,T	
Temperature range	-200℃~+850℃(PT100),-50℃~+150℃(Cu50)		K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃	
Data output	Each digit 0.1℃			

Expansion Modules Specification Parameters

High-speed pulse output module

Model	ES-04PMA	ES-04PMB
Appearance		
Pulse channel	1x4CH	1x4CH
Output mode	NPN	PNP
Nominal voltage	24VDC (-15%~+20%)	
Connector	Plug-in type 18Pin spring terminal	
Nominal current	Max. 0.5A per channel (Short-circuit and overload protection)	
Output frequency	Max.200KHz per channel	
Duty cycle	Process data is adjustable.	
Data format	32-bit pulse quantity and 32-bit pulse frequency	
DI Channel	1x4CH	
Input mode	NPN	PNP
Nominal voltage	24VDC (-15%~+20%)	
Input function	It can be configured to trigger the start and stop of high-speed pulses or used as a common digital input	
DO Channel	2x4CH	
Output mode	NPN	PNP
Nominal voltage	24VDC (-15%~+20%)	
Nominal current	Max. 0.5A per channel (Short-circuit and overload protection)	
Output function	It can be set as high-speed pulse status output, direction output, alarm output, or used as a common digital output	
Application	Designed for controlling stepper motors, servo motors, flow valves, etc.	

Pulse positioning module

Model	ES-04DMA
Appearance	
Pulse channel	1x4CH
Output mode	NPN
Nominal voltage	24VDC (-15%+20%)
Connector	Plug-in type 36Pin spring terminal
Nominal current	Max. 0.5A per channel (Short-circuit and overload protection)
Output frequency	Max.200KHz per channel
Moduel function	Zero point regression, left and right limits, T-curve acceleration and deceleration, S-curve acceleration and deceleration
DI Channel	4x4CH
Input mode	NPN
Nominal voltage	24VDC (-15%~+20%)
DI function	It can be set as DI, pulse stop, left or right limit, zero point, and near-zero point according to the wiring configuration
DO Channel	2x4CH
Output mode	NPN
Nominal voltage	24VDC (-15%~+20%)
Nominal current	Max. 0.5A per channel (Short-circuit and overload protection)
DO function	It can be set according to the wiring for forward output, reverse output, digital output, and reverse digital output
Application	Designed for controlling stepper motors, servo motors, flow valves, etc.

EExpansion Modules Specification Parameters

High-speed counting module

Model	ES-02HC
Appearance	
Counting channel	2CH
Encoder power supply	24V DC
Input type	NPN
Counting multiplier	4 times / 2 times / 1 time (default)
Encoder input mode	AB Orthogonal (ABZ)
Counting output mode	Count Value (Default)/Frequency/Period
Digital input channel	2X2CH
input type	NPN
Nominal voltage	24VDC (-15%~+20%)
input function	Configurable modes include: single-phase counting, AB-phase counting, and digital quantity counting.
Digital output channel	2X2CH
Nominal voltage	24VDC (-15%~+20%)
Nominal current	Max. 0.5A/CH, independent short-circuit protection for each channel
output function	Configurable as a comparator output in counting mode, digital output.

Modbus communication module

Model	ES-02MB-485	ES-02MB-422	ES-02MB-232
Appearance			
RS485 Channel	2		
Baud rate	4800,9600,19200,38400,57600,115200,256000（kbps）		
Com. parameter	The check bit and stop bit can be configured.		
Com. type	RS485(half-duplex)	RS422(full duplex)	RS232(full duplex)
Terminal resistance	Software control		-
Com. protocol	Modbus RTU master&free protocol		
Maximum data	128byte receive Data、128byte output data		
Message quantity	32		
Function code	01H,02H,03H,04H,05H,06H,0FH,10H		
Configuration tool	Set via the LAE_Config software		

IO-Link master module

Model	ES-04IOL
Appearance	
IO-Link channel	1x4CH
Debug interface	1xType C
IO-Link type	4xClassA，IO-Link V1.1
IO-Link interface	Plug-in type 14Pin spring terminal
Com. rate	COM1(4.8Kbps)、COM2(38.4Kbps)、COM3(230.4Kbps)
DI channel	Max.4，24VDC (-15%+20%)，PNP
Input filtering	Min.2ms
DO channel	Max.4，24VDC (-15%+20%)，PNP&NPN
Nominal voltage	Max. 0.5A per channel (Short-circuit and overload protection)
Configuration tool	Set via the LAE_Config software

Expansion Modules Specification Parameters

Weighing module

Model	ES-3026A	ES-3026B
Appearance		
Weighing channel	2	
Calibration mode	Weight calibration	Weight calibration / non-calibration mode
Sensor types	4-wire，6-wire	
Excitation voltage	5VDC	5VDC，10VDC
Measuring error	≤±0.05%	
Calibration form	In the weight calibration mode, use zero+full-scale calibration or multi-point linear calibration (≥3 points)	
Sampling period	200ms	
ADC resolution	24-bit	
Weighing unit	G、KG、T	
Power-on settings	It can be configured to clear or reset upon power-on.	

Terminal expansion module

Model	ES-1000
Appearance	
Expansion port	2xRJ45
Connection tpye	Point-to-point network cable connection
Nominal voltage	24V DC(-15%~+20%)
Nominal current	20mA
Protocol	Customized by LATCOS Company
Com.rate	Self-adaption
Addressing	Set via the PLC master station software or the LAE_Config software
Terminal quantity	Max.2
I/O capacity	Max.32xDI or 32xDO
Com.status	Through the main station software and LED lights
Protection	Short-circuit and overload protection
Signal diagnosis	Through the main station software and LED lights

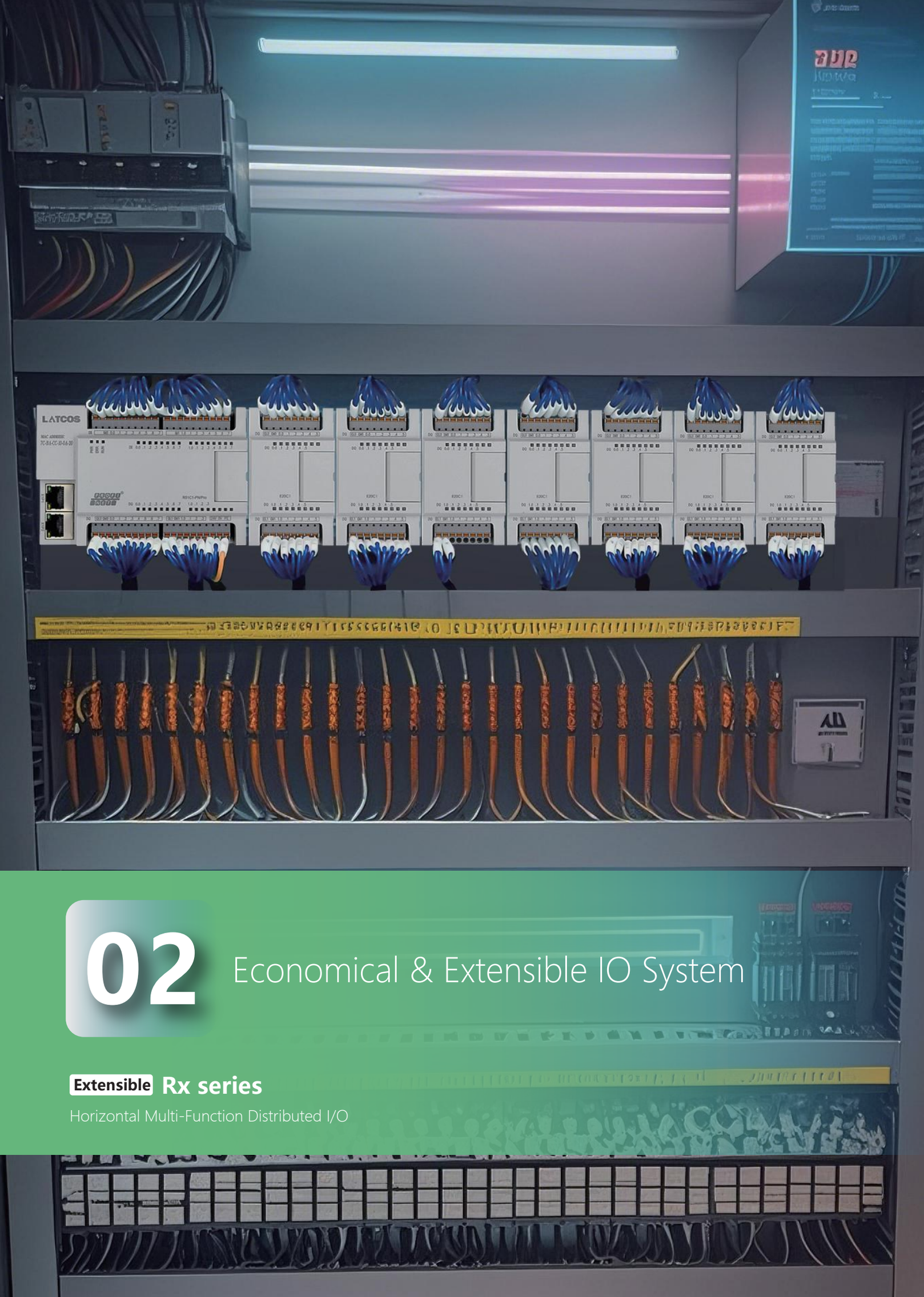
Terminal Module Parameters

TM Digital input module

Model	TM-1160D
Appearance	
Communication interface	1XRJ45
Power connector	Plug-in type 3Pin spring terminal (with locking function)
I/O connector	3Pin e-CON connector
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
Communication.protocol	Customized by LATCOS Company
Communication rate	Self-adaption
Addressing	Set via the PLC master station software or the LAE_Config software
Digital input Channel	16
Input mode	PNP&NPN（It can be switched via the DIP switch）
Isolation way	Opto-isolator
Nominal voltage	24V DC(-15%~+20%)
“1” signal	11~30V
“0” signal	0~5V
Input filtering	Min.2ms
Protection class	IP20
Installation	DIN35
Operating temperature	-20℃~+75℃

TM Digital output module

Model	TM-2161D	TM-2162D
Appearance		
Communication interface	1xRJ45	
Power connector	Plug-in type 3Pin spring terminal (with locking function)	
I/O connector	3Pin e-CON connector	
Nominal voltage	24V DC(-15%~+20%)	
Nominal current	20mA	
Communication protocol	Customized by LATCOS Company	
Communication rate	Self-adaption	
Addressing	Set via the PLC master station software or the LAE_Config software	
Digital output Channel	16	
Output mode	PNP	NPN
Isolation way	Opto-isolator	
Load type	Resistive load, inductive load, and lamp load	
Output current	Max. 0.5A per channel (Short-circuit and overload protection)	
Electric isolation	500VDC between the output and the internal communication	
Port protection	Overvoltage, overcurrent protection, reverse current prevention	
Protection class	IP20	
Installation	DIN35	
Operating temperature	-20℃~+75℃	



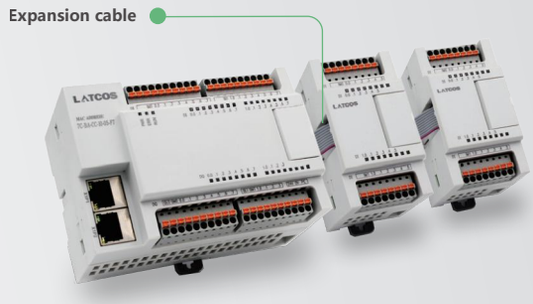
02 Economical & Extensible IO System

Extensible Rx series

Horizontal Multi-Function Distributed I/O

Rx series

Horizontal Multi-Function Distributed I/O

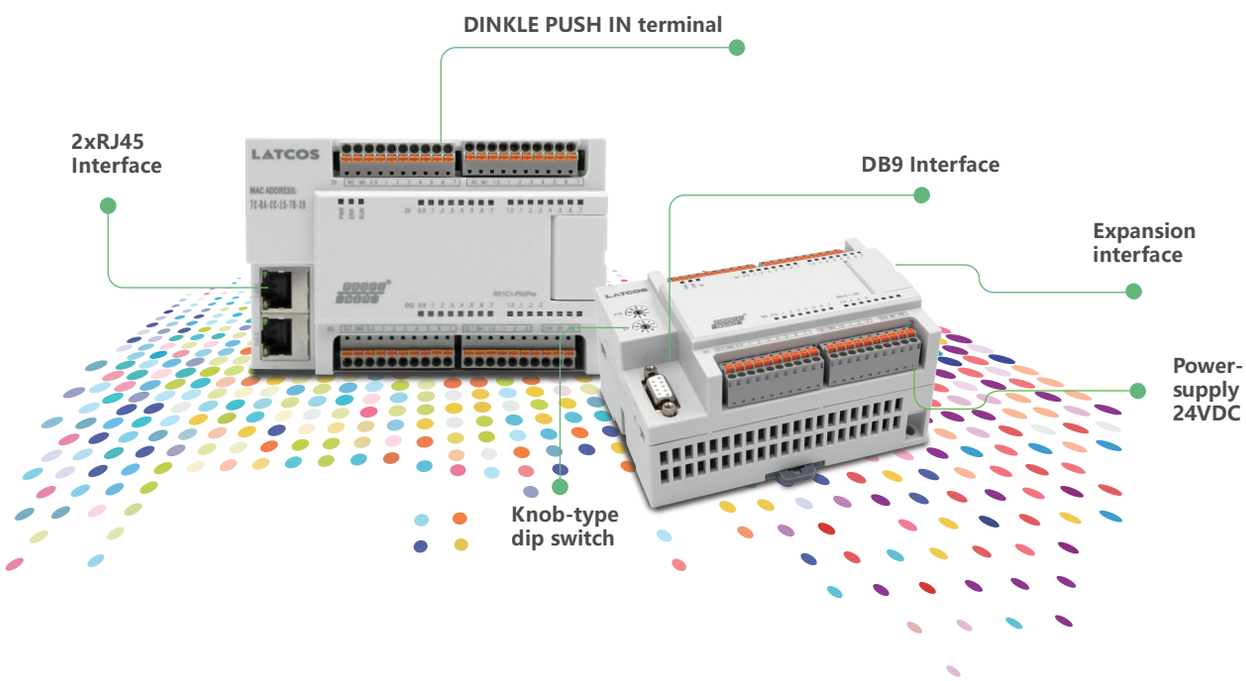


Integrated Design | Flexible Expansion | Rail Installation | Various Protocols

Product Feature

The Rx series horizontal multi-functional distributed I/O is a multi-functional module with certain expansion capabilities, suitable for small substations with around 100 points. We have equipped this product with a 5V backplane bus, which can expand 7 modules, including various functions such as digital/analogue/temperature acquisition. It can be flexibly combined to meet the various needs of small-scale systems. The product has been widely applied, and our customers include various general automation equipment fields such as new energy vehicles, food, medical, and packaging.

Product Appearance



Application Scene


Motor Industry


Automobile


Logistics Storage


Armarium

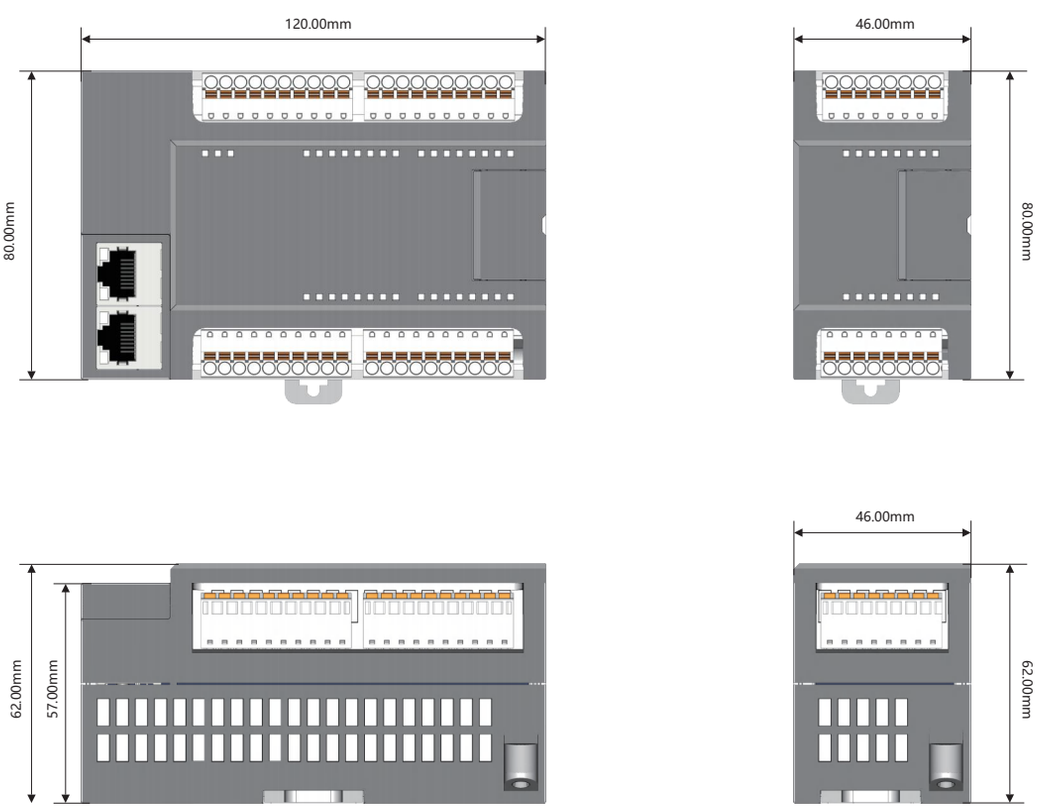
Coupler General Parameters

Nominal voltage	24V DC(-15%~+20%)
Operating current	150mA
Max. expansion quantity	7
I/O capacity	Digital：112 (Max)　Analog：28 (Max)
Wiring method	Tool-free
Fault diagnosis	Through the main station software and LED lights
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

Expansion Module General Parameters

Communication rate	Self-adaption，(MAX) 2M
Addressing	Configuration via master station software
Power supply	Connect via the internal system
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

Overall Size



Coupler Specification Parameters

Model	R51C1-DP(Pro)	R51C1-PN(-Pro)	R51C2-PN(-Pro)
Appearance			
Bus interface	D-Sub9(Female)	2xRJ45，Cascadeable	2xRJ45，Cascadeable
Expansion port	12Pin(Male)		
I/O terminals	10Pin plug-in spring terminals		
Protocol	PROFIBUS DP V0	PROFINET RT	PROFINET RT
Com. rate	12M(Max),self-adaption	100M(Max),self-adaption	100M(Max),self-adaption
Addressing	01~99(Dip switch)	Via ROFINET master software	Via PROFINET master software
Input channels	16		
Input type	PNP&NPN		
Electric isolation	500VDC between the iutput and the internal communication		
Nominal voltage	24V DC(-15%~+20%)		
“1” signal	11~30V		
“0” signal	0~5V		
Input filtering	Min. 2ms		
Output channels	12	12	12
Output type	PNP	PNP	NPN
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24V DC(-15%~+20%)		
Nominal current	Max. 0.5A per channe		
Electric isolation	500VDC between the output and the internal communication		
Port protection	Short-circuit and overload protection		

Coupler Specification Parameters

Model	R51C1-EA(-Pro)	R5202-EA(-Pro)	R51C1-EP(-Pro)	R51C2-EP(-Pro)
Appearance				
Bus interface	2xRJ45	2xRJ45	2xRJ45，Cascadeable	2xRJ45，Cascadeable
Expansion port	12Pin(Male)			
I/O terminals	10Pin plug-in spring terminals			
Protocol	EtherCAT		EtherNET/IP	
Com. rate	100M(Max),self-adaption		100M(Max),self-adaption	
Addressing	Via EtherCATmaster station software		Via LAE_config software	
Input channels	16			
Input type	PNP&NPN			
Electric isolation	500VDC between the iutput and the internal communication			
Nominal voltage	24V DC(-15%~+20%)			
“1” signal	11~30V			
“0” signal	0~5V			
Input filtering	Min. 2ms			
Output channels	12	16	12	12
Output type	PNP	NPN	PNP	NPN
Load type	Resistive load, inductive load, and lamp load			
Nominal voltage	24V DC(-15%~+20%)			
Nominal current	Max. 0.5A per channe			
Electric isolation	500VDC between the output and the internal communication			
Port protection	Short-circuit and overload protection			

Model	R51C1-CN	R51C1-DN
Appearance		
Bus interface	5Pin plug-in spring terminals	
Expansion port	-	
I/O terminals	10Pin plug-in spring terminals	
Protocol	CANopen CiA301 CiA401	DeviceNet
Com. rate	1M(Max), via dip switch	1M(Max),via dip switch
Addressing	01~99(Dip switch)	01~99(Dip switch)
Input channels	16	
Input type	PNP&NPN	
Electric isolation	500VDC between the iutput and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
“1” signal	11~30V	
“0” signal	0~5V	
Input filtering	Min. 2ms	
Output channels	12	12
Output type	PNP	PNP
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24V DC(-15%~+20%)	
Nominal current	Max. 0.5A per channe	
Electric isolation	500VDC between the output and the internal communication	
Port protection	Short-circuit and overload protection	

Expansion Modules Specification Parameters

Digital input module

Model	E10C1
Appearance	
Input channels	12
Input type	PNP& NPN
Electric isolation	500VDC between the iutput and the internal communication
Nominal voltage	24V DC(-15%~+20%)
“1” signal	11~30V
“0” signal	0~5V
Input filtering	Min. 2ms
Wiring type	2-wire or 3-wire

Digital output module (Transistor)

Model	E20C1	E20C2
Appearance		
Output channels	12	12
Output type	PNP	NPN
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24V DC(-15%~+20%)	
Nominal current	Max. 0.5A per channe	
Electric isolation	500VDC between the output and the internal communication	
Port protection	Short-circuit and overload protection	

Analog input module

Model	E3041
Appearance	
Input Channels	4
Input mode	Current&voltage mode
Resolution ratio	12bit (16-bit representation, including symbols)
Input range(I)	0~20mA，4~20mA
Input range(V)	0~10V
Input resistance	Current input≤125Ω，voltage input≥10MΩ
Input Precision	±0.3% (full scale)
Input Speed	1ms/V
Input filtering	Configurable

Expansion Modules Specification Parameters

Analog output module

Model	E4041
Appearance	
Output Channels	4
Output mode	Current&voltage mode
Resolution ratio	12bit (16-bit representation, including symbols)
Output range(I)	4~20mA
Output range(V)	0~10V
Output resistance	Current output≤500Ω，voltage output≥1KΩ
Output Precision	±0.3%（full scale）
Output Speed	1ms/time

Temperature acquisition module (RTD)

Model	E8041
Appearance	
Input Channels	4
Resolution ratio	12bit (16-bit representation, including symbols)
Sensor types	PT100,Cu50
Temperature range	-200℃~+850℃(PT100),-50℃~+150℃(Cu50)
Data output	Each digit 0.1℃
Input Precision	±1℃（full scale）
Input Speed	500ms/time
Input filter	Configurable

Temperature acquisition module (TC)

Model	E8042
Appearance	
Input Channels	4
Resolution ratio	12bit (16-bit representation, including symbols)
Sensor types	K，S，R，B，J，N，E，T
Temperature range	K: -200~+1300℃ S: 0~+1600℃ R: 0~+1600℃ B: 100~ +1820℃ J: -200~-1200℃ N: -270~+1300℃ E: -270~1000℃ T: -200~+350℃
Data output	Each digit 0.1℃
Input Precision	±1℃（full scale）
Input Speed	500ms/time
Input filter	Configurable

03

An I/O System Suitable For Flexible Layout In Industrial Sites

Extensible IO-Link series

IO-Link Field Distributed I/O Module

IO-Link series

IO-Link Field Distributed I/O Module

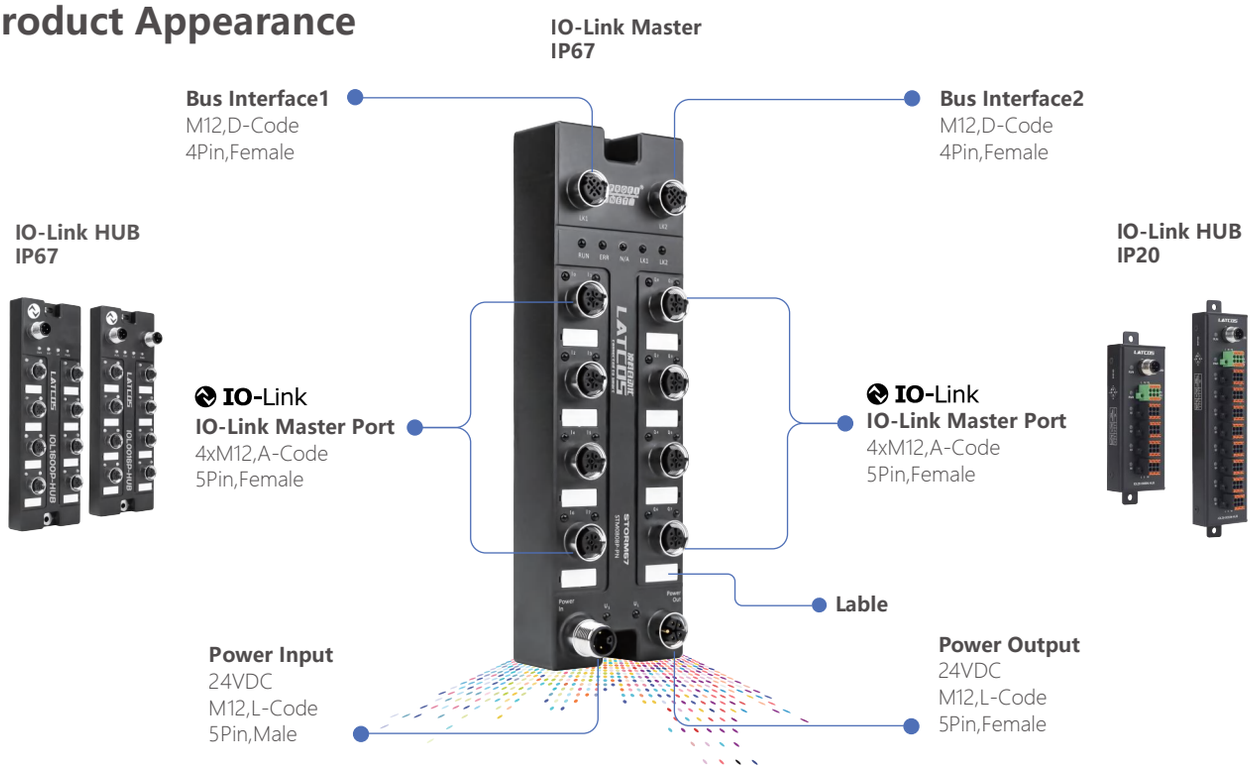
IO-Link

Flexible Installation | IP67 Protection | Standard Connection | Flexible Topology

Product Feature

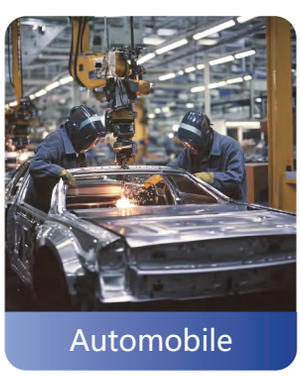
IO-Link is a point-to-point communication protocol and interface standard designed for the industrial automation domain. It enables bidirectional digital communication from the controller to field devices such as sensors and actuators, building upon traditional industrial fieldbuses or industrial Ethernet. This protocol offers a simple, flexible, and cost - effective communication method among industrial devices, which contributes to enhancing the performance and reliability of industrial automation systems. The IO-Link products launched by Linkconn provide users with two types of hubs, IP67 and IP20, effectively achieving an integrated option for cost control and system expansion.

Product Appearance



Application Scene


Industrial Robot


Automobile

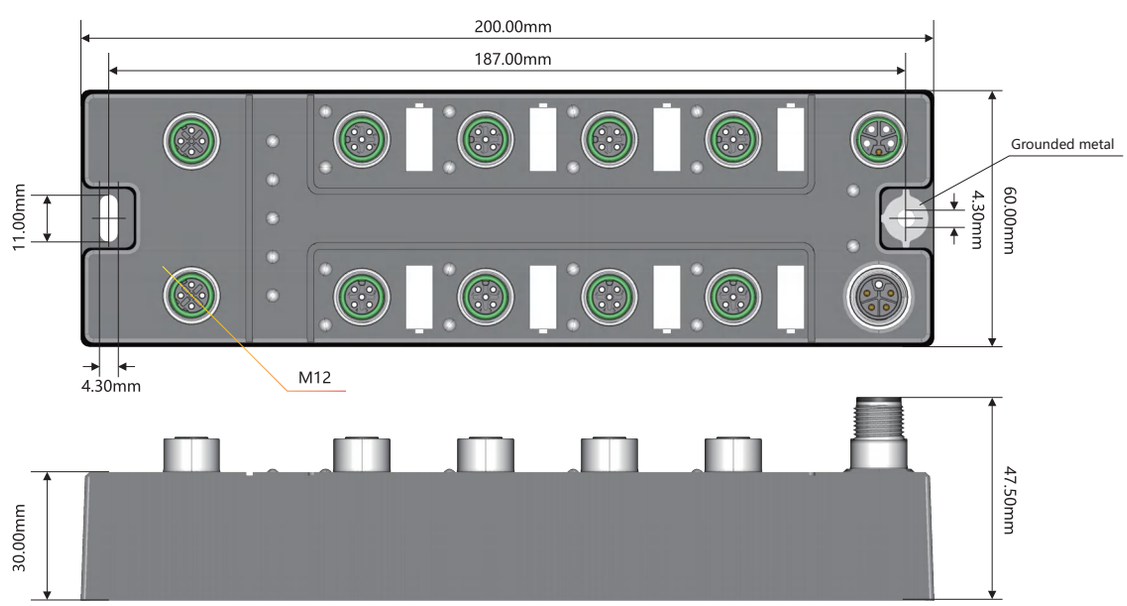

New Energy


Semiconductor

IO-Link master general parameters（IP67）

Bus interface	2×M12，D-Code，4P，female
Power Inerface	Power In：1×M12，L-Code，4P，male；Power Out：1×M12，L-Code，4P，female
IO-Link port	8×M12，A-Code，5P，female
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
U_S total current	System power supply Max.8A
U_L total current	Load power supply Max.8A
IO-Link channels	8
IO-Link type	8xClassA
IO-Link version	IO-Link V1.1
Communication rate	COM1(4.8KBPS)、COM2(38.4KBPS)、COM3(230.4KBPS)
Input channel	Max. 16，PNP， be up to IEC61131-2 TYPE2 standard
Input filtering	Min.2ms
Output channel	Max.8，PNP&NPN
Nominal current	Max. 0.5A per channel
Protection class	IP67
Installation method	Fixed installation
Operating temperature	-20℃~+75℃

IO-Link master overall size（IP67）



IO-Link Master Communication Parameters（IP67）

PROFINET

Model	PN-08IOL
Appearance	
Protocal	PROFINET RT
Communication rate	100Mbps, self-adaption
Addressing	Configure via the PROFINET master station software

EtherNet/IP

Model	EP-08IOL
Appearance	
Protocal	EtherNet/IP
Communication rate	100Mbps, self-adaption
Addressing	Configure via web page，the IP address is 192.168.0.2

CC-Link IE FieldBasic

Model	CE-08IOL
Appearance	
Protocal	CC-Link IE FieldBasic
Communication rate	100Mbps, self-adaption
Addressing	Configure via web page，the IP address is 192.168.0.2

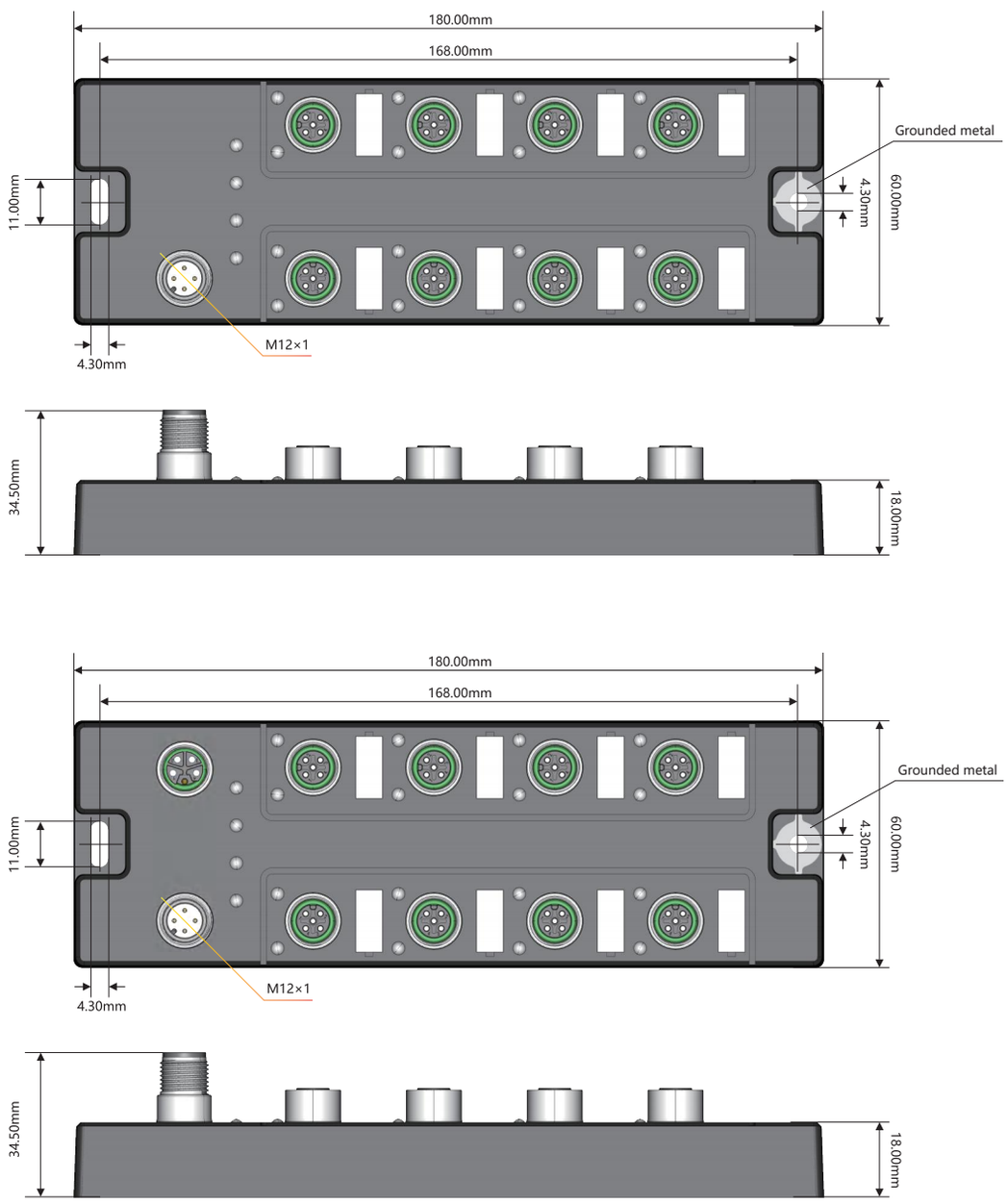
EtherCAT

Model	EA-08IOL
Appearance	
Protocal	EtherCAT
Communication rate	100Mbps, self-adaption
Addressing	Configure viat EtherCAT master station software

IO-Link HUB general parameters（IP67）

Bus interface	1xClassA，M12，A-Code，4Pin，male
I/O interface	8×M12，A-Code，5Pin，female
Nominal voltage	24V DC(-15%~+20%)
Nominal current	20mA
Protocal	IO-Link V1.1
Communication rate	COM2(38.4KBPS)
Addressing	Configerate via master station
Protection class	IP67
Installation method	Fixed installation
Operating temperature	-20℃~+75℃

IO-Link HUB overall size（IP67）



IO-Link HUB specification parameters (IP67)

Digital input module

Model	IOL-1600P-HUB	IOL-1600N-HUB
Appearance		
Power supply	Provide via master module	Provide via master module
Input channels	16	16
Input type	PNP	NPN
Electric isolation	Optocoupler,500VDC between the output and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
"1" signal	11~30V	
"0" signal	0~5V	
Input filter	Min.2ms	

Digital output module (Transistor)

Model	IOL-0016P-HUB	IOL-0016N-HUB
Appearance		
Power interface	Power In: 1×M12, L-Code, 4Pin, male	Power In: 1×M12, L-Code, 4Pin, male
Output Channels	16	16
Output type	PNP	NPN
Isolation method	Optocoupler	
Electric isolation	500VDC between the input and the internal communication	
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24V DC(-15%~+20%)	
Nominal current	Max. 0.5A per channel	
Port protection	Short-circuit and overload protection	

Digital input & output module (Transistor)

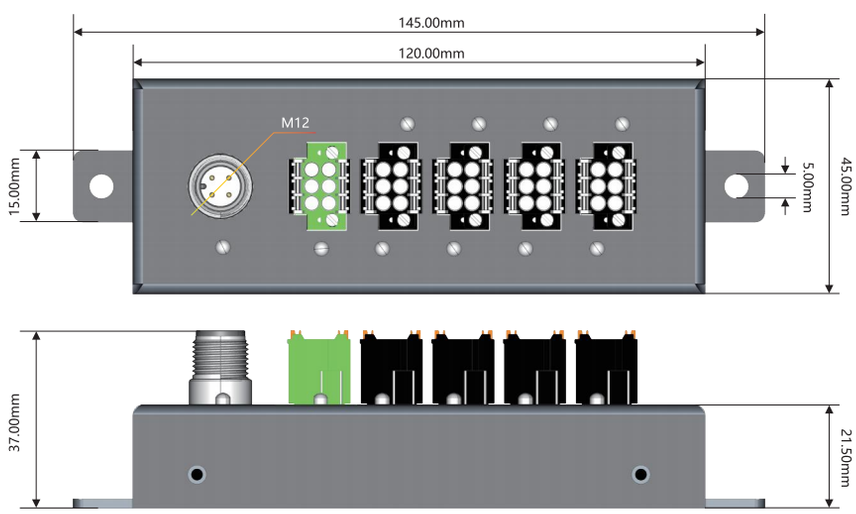
Model	IOL-0808P-HUB	IOL-0808N-HUB
Appearance		
Power interface	Power In: 1×M12, L-Code, 4Pin, male	Power In: 1×M12, L-Code, 4Pin, male
Input channels	8	8
Input type	PNP	NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
"1" signal	11~30V	
"0" signal	0~5V	
Input filter	Min.2ms	
Output Channels	8	8
Output type	PNP	NPN
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24V DC(-15%~+20%)	
Nominal current	Max. 0.5A per channel	
Electric isolation	500VDC between the input and the internal communication	
Port protection	Short-circuit and overload protection	

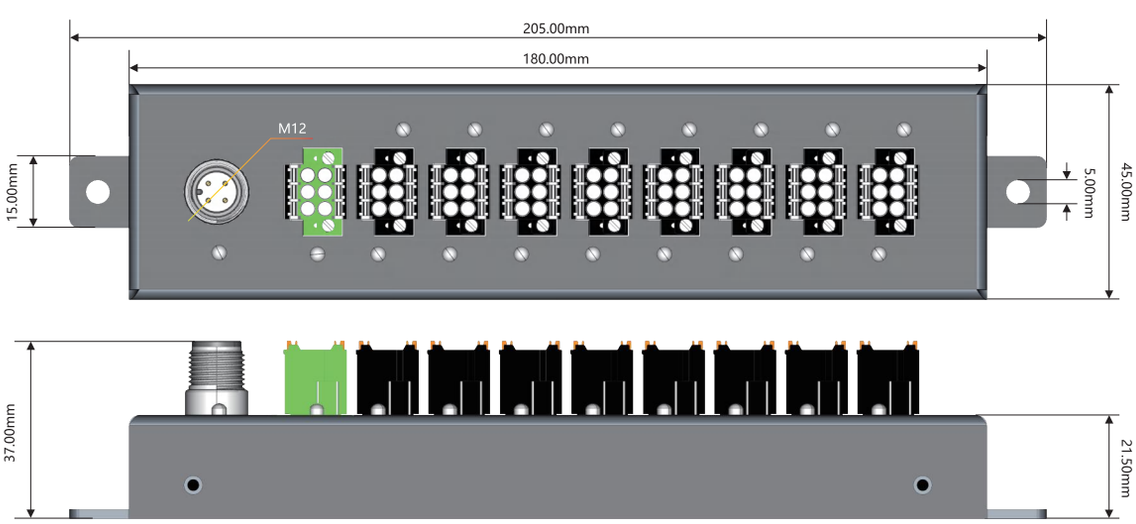
IO-Link HUB general parameters（IP20）

IP20

Bus interface	1xClassA，M12，A-Code，4Pin，male
Power Inerface	Green，Plug-in type 2*3Pin spring terminal (with locking function)
I/O port	Black，Plug-in type 2*3Pin spring terminal (with locking function)
Nominal voltage	24VDC(-15%~+20%)
Nominal current	20mA
Protocal	IO-Link V1.1
Communication rate	COM2(38.4KBPS)
addressing	configrate via master module
Protection class	IP20
Installation method	Fixed installation
Operating temperature	-20℃~+75℃

IO-Link HUB overall size（IP20）





IO-Link master specification parameters（IP20）

Digital input module

Model	IOL20-0800P-HUB	IOL20-0800N-HUB
Appearance		
Input channels	8	8
Input type	PNP	NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
“1” signal	11~30V	
“0” signal	0~5V	
Input filter	Min.2ms	

Digital output module（Transistor）

Model	IOL20-0008P-HUB	IOL20-0008N-HUB
Appearance		
Output Channels	8	8
Output type	PNP	NPN
Isolation method	Optocoupler	
Electric isolation	500VDC between the input and the internal communication	
Load type	Resistive load, inductive load, and lamp load	
Nominal current	Max. 0.5A per channel	
Port protection	Short-circuit and overload protection	

Digital input & output module（Transistor）

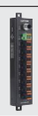
Model	IOL20-0404P-HUB	IOL20-0404N-HUB
Appearance		
Input channels	4	4
Input type	PNP	NPN
Isolation method	Optocoupler	
Electric isolation	500VDC between the input and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
“1” signal	11~30V	
“0” signal	0~5V	
Input filter	Min.2ms	4
Output Channels	4	NPN
Output type	PNP	
Electric isolation	500VDC between the input and the internal communication	
Load type	Resistive load, inductive load, and lamp load	
Nominal current	Max. 0.5A per channel	
Port protection	Short-circuit and overload protection	

IO-Link master specification parameters (IP20)

Digital input module

Model	IOL20-1600P-HUB	IOL20-1600N-HUB
Appearance		
Input channels	16	16
Input type	PNP	NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
"1" signal	11~30V	
"0" signal	0~5V	
Input filter	Min.2ms	

Digital output module (Transistor)

Model	IOL20-0016P-HUB	IOL20-0016N-HUB
Appearance		
Output Channels	16	16
Output type	PNP	NPN
Isotation method	Optocoupler	
Electric isolation	500VDC between the input and the internal communication	
Load type	Resistive load, inductive load, and lamp load	
Nominal current	Max. 0.5A per channel	
Port protection	Short-circuit and overload protection	

Digital input & output module (Transistor)

Model	IOL20-0808P-HUB	IOL20-0808N-HUB
Appearance		
Input channels	8	8
Input type	PNP	NPN
Isotation method	Optocoupler	
Electric isolation	500VDC between the input and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
"1" signal	11~30V	
"0" signal	0~5V	
Input filter	Min.2ms	8
Output Channels	4	NPN
Output type	PNP	
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Load type	Resistive load, inductive load, and lamp load	
Nominal current	Max. 0.5A per channel	
Port protection	Short-circuit and overload protection	

04 Highly Integrated & Multi-signal-Distributed I/O

Integrated SRx series

Vertical Multi-Function Distributed I/O

SRx series

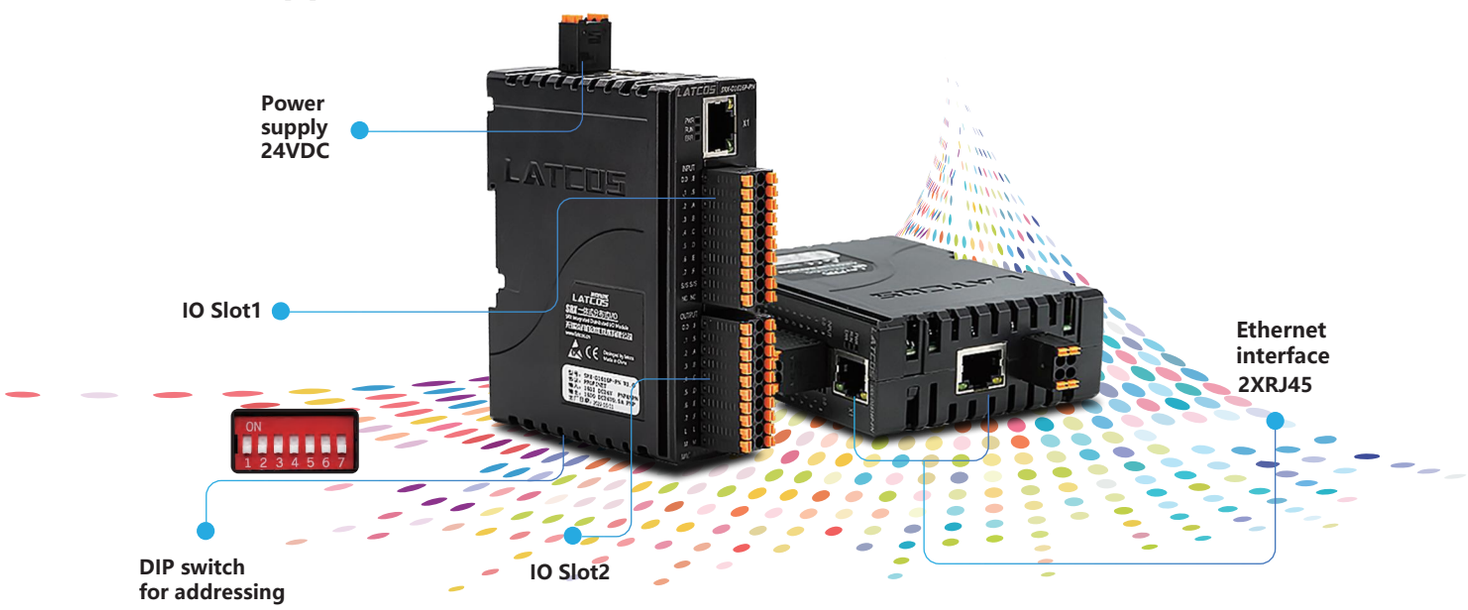
Vertical Multi-Function Distributed I/O

Two slots Configuration | More Combinations | Compact Size | Convenient Operation

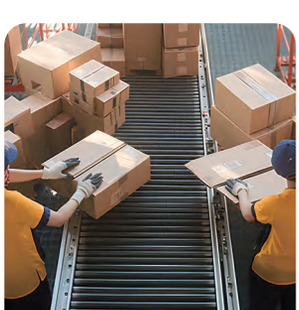
Product Feature

The SRX vertical multi-function distributed I/O features a compact structure suitable for installation in small control cabinets and decentralized layouts. This multi-function I/O system incorporates LATCOS's self-developed Quick-Match integrated module solution, utilizing a unique 1+2 system architecture that enables flexible adaptation to diverse functions. It supports 48 functional combinations and can be equipped with 6 bus protocols to facilitate rapid and stable data transmission with PLCs, effectively addressing various user requirements. Widely applied in general automation and factory data acquisition scenarios, it demonstrates high cost-effectiveness, stable communication, and versatile configurability.

Product Appearance



Application Scene


Logistics Storage


Lithium battery


3C Electronics


Automobile Parts

Communication & General Parameters

PROFINET

Bus interface	2xRJ45，support cascading
Power Inerface	Plug-in type 2*2Pin spring terminal
IO port	Plug-in type 2*10Pin spring terminal
Nominal voltage	24VDC(-15%~+20%)
Nominal current	150mA
Protocol	PROFINET RT
Communication rate	100Mbps,Self-adaption
Addressing	Configuration via PROFINET master station software or dip switch
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

EtherNet/IP

Bus interface	2xRJ45，support cascading
Power Inerface	Plug-in type 2*2Pin spring terminal
IO port	Plug-in type 2*10Pin spring terminal
Nominal voltage	24VDC(-15%~+20%)
Nominal current	150mA
Protocol	EtherNet/IP
Communication rate	100Mbps,Self-adaption
Addressing	Set the IP address via the LAE_Config software or dip switch
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

CC-Link IE FieldBasic

Bus interface	2xRJ45，support cascading
Power Inerface	Plug-in type 2*2Pin spring terminal
IO port	Plug-in type 2*10Pin spring terminal
Nominal voltage	24VDC(-15%~+20%)
Nominal current	150mA
Protocol	EtherNet/IP
Communication rate	100Mbps,Self-adaption
Addressing	Set the IP address via the LAE_Config software or dip switch
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

EtherCAT

Bus interface	2xRJ45，support cascading
Power Inerface	Plug-in type 2*2Pin spring terminal
IO port	Plug-in type 2*10Pin spring terminal
Nominal voltage	24VDC(-15%~+20%)
Nominal current	150mA
Protocol	EtherNet/IP
Communication rate	100Mbps,Self-adaption
Addressing	Set the station number through the EtherCAT master station software
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

Communication & General Parameters

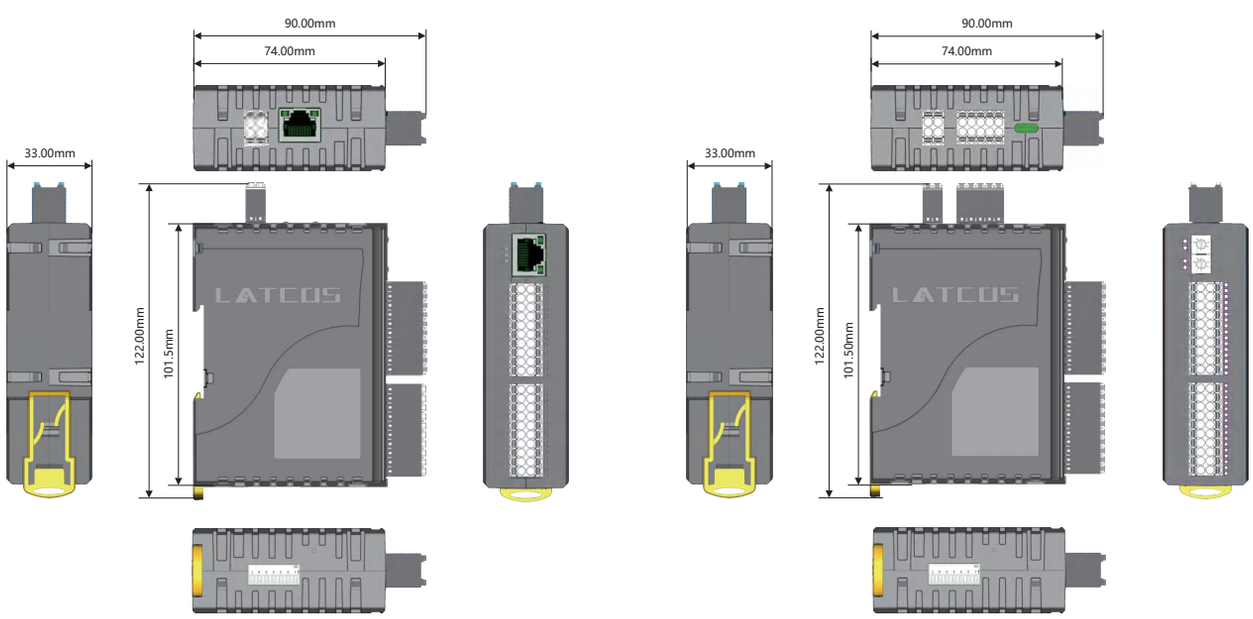
Modbus TCP

Bus interface	2xRJ45，support cascading
Power Inerface	Plug-in type 2*2Pin spring terminal
IO port	Plug-in type 2*10Pin spring terminal
Nominal voltage	24VDC(-15%~+20%)
Nominal current	150mA
Protocol	Modbus TCP
Communication rate	100Mbps,Self-adaption
Addressing	Set the IP address via the LAE_Config software or dip switch
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

Modbus RTU

Bus interface	Plug-in type 2*5Pin spring terminal，support cascading
Power Inerface	Plug-in type 2*2Pin spring terminal
IO port	Plug-in type 2*10Pin spring terminal
Debug port	1xType C
Nominal voltage	24VDC(-15%~+20%)
Nominal current	150mA
Protocol	Modbus RTU
Baud rate（Kbps）	2400,4800,19200,38400,57600,115200
Addressing	Set the station number via the dip switch
Protection class	IP20
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

Overall Size



IO specification parameters

DI+DO (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-D0808P-**	SRX-D0808N-**	SRX-D1616P-**	SRX-D1616N-**
Appearance				
Digital input channel	8	8	16	16
Input type	PNP	NPN	PNP&NPN	PNP&NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication			
Nominal voltage	24VDC(-15%~+20%)			
“1” signal	11~30V			
“0” signal	0~5V			
Input filter	Min.2ms			
Digital output Channel	8	8	16	16
Output type	PNP	NPN	PNP	NPN
Load type	Resistive load, inductive load, and lamp load			
Nominal voltage	24VDC(-15%~+20%)			
Nominal current	Max. 0.5A per channel			
Electric isolation	Optocoupler,500VDC between the input and the internal communication			
Port protection	Short-circuit and overload protection			

DI+DO (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-D2408N-**	SRX-D0824P-**	SRX-D2408P-**	SRX-D0824N-**
Appearance				
Digital input channel	24	24	8	8
Input type	16xPNP&NPN，8xPNP	16xPNP&NPN，8xNPN	PNP	NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication			
Nominal voltage	24VDC(-15%~+20%)			
“1” signal	11~30V			
“0” signal	0~5V			
Input filter	Min.2ms			
Digital output Channel	8	8	24	24
Output type	PNP	NPN	PNP	NPN
Load type	Resistive load, inductive load, and lamp load			
Nominal voltage	24VDC(-15%~+20%)			
Nominal current	Max. 0.5A per channel			
Electric isolation	Optocoupler,500VDC between the input and the internal communication			
Port protection	Short-circuit and overload protection			

IO specification parameters

DI (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-D1600-**	SRX-D3200-**
Appearance		
Digital input channel	16	32
Input type	PNP&NPN	
Electric isolation	Optocoupler,500VDC between the output and the internal communication	
Nominal voltage	24VDC(-15%~+20%)	
“1” signal	11~30V	
“0” signal	0~5V	
Input filter	Min.2ms	

DO (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-D0016P-**	SRX-D0016N-**	SRX-D0032P-**	SRX-D0032N-**
Appearance				
Digital output Channel	16	16	32	32
Output type	PNP	NPN	PNP	NPN
Load type	Resistive load, inductive load, and lamp load			
Nominal voltage	24VDC(-15%~+20%)			
Nominal current	Max. 0.5A per channel			
Electric isolation	Optocoupler,500VDC between the output and the internal communication			
Port protection	Short-circuit and overload protection			

IO specification parameters

AI (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-A0600-**	SRX-A1200-**
Appearance		
Analog input channel	6	12
Input mode	Current & voltag mode	
ADC resolution	16bit (including symbols)	
Input range	0~20mA/4~20mA/0~10V/±10V	
Input resistance	Current input≤125Ω，voltage input≥10MΩ	
Input Precision	±0.1% (full scale)	
Input Speed	1ms/time	
Off-line diagnosis	When the mode is selected as 4~20 mA, the output is -27648	
Input filter	Configurable	

AO (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-A0004-**	SRX-A0008-**
Appearance		
Analog output channel	4	8
Output mode	Current & voltag mode	
ADC resolution	16bit (including symbols)	
Output range	0~20mA/4~20mA/0~10V	
Output resistance	Current≤500Ω，Current output≥1KΩ	
Output Precision	±0.1% (full scale)	
Output Speed	1ms/time	

IO specification parameters

RTD (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-08RTD-**	SRX-16RTD-**
Appearance		
RTD input Channel	8	16
Wiring tpye	2-wire or 3-wire（Default 3-wire）	
ADC Resolution	16bit (including symbols)	
Sensor types	PT100，Cu50	
Temperature range	-200℃~+850℃(PT100),-50℃~+150℃(Cu50)	
Input Precision	±0.5℃（full scale）	
Input Speed	500ms/time	
Data output	Each digit 0.1℃	
Input filter	Configurable	

TC (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-08TC-**	SRX-16TC-**
Appearance		
TC input Channel	8	16
Wiring tpye	2-wire	
ADC Resolution	16bit (including symbols)	
Sensor types	K,S,R,B,J,N,E,T	
Temperature range	K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃	
Input Precision	±0.5℃（full scale）	
Input Speed	500ms/time	
Data output	Each digit 0.1℃	
Input filter	Configurable	

IO specification parameters

AI+AO (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-A0604-**
Appearance	
Analog input channel	6
Input mode	Current & voltag mode
ADC resolution	16bit (including symbols)
Input range	0~20mA/4~20mA/0~10V/±10V
Input resistance	Current input≤125Ω，voltage input≥10MΩ
Input Precision	±0.1%（full scale）
Input Speed	1ms/time
Off-line diagnosis	When the mode is selected as 4~20 mA, the output is -27648
Input filter	Configurable
Analog output channel	4
Output mode	Current & voltag mode
ADC resolution	16bit (including symbols)
Output range	0~20mA/4~20mA/0~10V
Output resistance	Current≤500Ω，Current output≥1KΩ
Output Precision	±0.1%（full scale）
Output Speed	1ms/time

RTD+TC (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-8RTD-8TC-**
Appearance	
RTD input Channel	8
Wiring tpye	2-wire or 3-wire（Default 3-wire）
ADC Resolution	16bit (including symbols)
Sensor types	PT100，Cu50
Temperature range	-200℃~+850℃(PT100),-50℃~+150℃(Cu50)
Input Precision	±0.5℃（full scale）
Input Speed	500ms/time
Data output	Each digit 0.1℃
Input filter	Configurable
TC input Channel	8
Wiring tpye	2-wire
ADC Resolution	16bit (including symbols)
Sensor types	K,S,R,B,J,N,E,T
Temperature range	K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃
Input Precision	±0.5℃（full scale）
Input Speed	500ms/time
Data output	Each digit 0.1℃
Input filter	Configurable

IO specification parameters

DIDO+AI (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-M8860P-**	SRX-M8860N-**
Appearance		
Digital input channel	8	8
Input type	PNP/24VDC/Input filter min.2ms	NPN/24VDC/Input filter min.2ms
Digital output Channel	8	8
Output type	PNP	NPN
Nominal current	Max. 0.5A/24VDC per channel	
Load type	Resistive load, inductive load, and lamp load	
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Port protection	Short-circuit and overload protection	
Analog input channel	6	
Input mode	Current & voltag mode	
ADC resolution	16bit (including symbols)	
Input range	0~20mA/4~20mA/0~10V/±10V	
Input resistance	Current input≤125Ω，voltage input≥10MΩ	
Input Precision	±0.1% (full scale)	
Input Speed	1ms/time	
Off-line diagnosis	When the mode is selected as 4~20 mA, the output is -27648	
Input filter	Configurable	

DIDO+AO (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-M8804P-**	SRX-M8804N-**
Appearance		
Digital input channel	8	8
Input type	PNP/24VDC/Input filter min.2ms	NPN/24VDC/Input filter min.2ms
Digital output Channel	8	8
Output type	PNP	NPN
Nominal current	Max. 0.5A/24VDC per channel	
Load type	Resistive load, inductive load, and lamp load	
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Port protection	Short-circuit and overload protection	
Analog output channel	4	
Output mode	Current & voltag mode	
ADC resolution	16bit (including symbols)	
Output range	0~20mA/4~20mA/0~10V	
Output resistance	Current≤500Ω，Current output≥1KΩ	
Output Precision	±0.1% (full scale)	
Output Speed	1ms/time	

IO specification parameters

DI+AI (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-MF060-**
Appearance	
Digital input channel	16
Input channels	PNP&NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication
Nominal voltage	24V DC(-15%~+20%)
“1” signal	11~30V
“0” signal	0~5V
Input filter	Min.2ms
Analog input channel	6
Input mode	Current & voltag mode
ADC resolution	16bit (including symbols)
Input range	0~20mA/4~20mA/0~10V/±10V
Input resistance	Current input≤125Ω，voltage input≥10MΩ
Input Precision	±0.1% (full scale)
Input Speed	1ms/time
Off-line diagnosis	When the mode is selected as 4~20 mA, the output is -27648
Input filter	Configurable

DI+AO (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-MF004-**
Appearance	
Digital input channel	16
Input channels	PNP&NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication
Nominal voltage	24V DC(-15%~+20%)
“1” signal	11~30V
“0” signal	0~5V
Input filter	Min.2ms
Analog output channel	4
Output mode	Current & voltag mode
ADC resolution	16bit (including symbols)
Output range	0~20mA/4~20mA/0~10V
Output resistance	Current≤500Ω，Current output≥1KΩ
Output Precision	±0.1% (full scale)
Output Speed	1ms/time

IO specification parameters

DO+AI (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-M0F60P-**	SRX-M0F60N-**
Appearance		
Digital output Channel	16	16
Output type	PNP	NPN
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24V DC(-15%~+20%)	
Nominal current	Max. 0.5A per channel	
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Port protection	Short-circuit and overload protection	
Analog input channel	6	
Input mode	Current & voltag mode	
ADC resolution	16bit (including symbols)	
Input range	0~20mA/4~20mA/0~10V/±10V	
Input resistance	Current input≤125Ω，voltage input≥10MΩ	
Input Precision	±0.1% (full scale)	
Input Speed	1ms/time	
Off-line diagnosis	When the mode is selected as 4~20 mA, the output is -27648	
Input filter	Configurable	

DO+AO (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-M0F04P-**	SRX-M0F04N-**
Appearance		
Digital output Channel	16	16
Output type	PNP	NPN
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24V DC	
Nominal current	Max. 0.5A per channel	
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Port protection	Short-circuit and overload protection	
Analog output channel	4	
Output mode	Current & voltag mode	
ADC resolution	16bit (including symbols)	
Output range	0~20mA/4~20mA/0~10V	
Output resistance	Current≤500Ω，Current output≥1KΩ	
Output Precision	±0.1% (full scale)	
Output Speed	1ms/time	

IO specification parameters

DIDO+RTD (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-88DP-8RTD-**	SRX-88DN-8RTD-**
Appearance		
Digital input channel	8	8
Input type	PNP/24VDC/Input filter min.2ms	NPN/24VDC/Input filter min.2ms
Digital output channel	8	8
Output type	PNP	NPN
Nominal current	Max. 0.5A/24VDC per channel	
Load type	Resistive load, inductive load, and lamp load	
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Port protection	Short-circuit and overload protection	
RTD input Channel	8	
Wiring tpye	2-wire or 3-wire（Default 3-wire）	
ADC Resolution	16bit (including symbols)	
Sensor types	PT100，Cu50	
Temperature range	-200℃~+850℃(PT100),-50℃~+150℃(Cu50)	
Input Precision	±0.5℃（full scale）	
Input Speed	500ms/time	
Data output	Each digit 0.1℃	
Input filter	Configurable	

DIDO+TC (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-88DP-8TC-**	SRX-88DN-8TC-**
Appearance		
Digital input channel	8	8
Input type	PNP/24VDC/Input filter min.2ms	NPN/24VDC/Input filter min.2ms
Digital output channel	8	8
Output type	PNP	NPN
Nominal current	Max. 0.5A/24VDC per channel	
Load type	Resistive load, inductive load, and lamp load	
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Port protection	Short-circuit and overload protection	
TC input Channel	8	
Wiring tpye	2-wire	
ADC Resolution	16bit (including symbols)	
Sensor types	K,S,R,B,J,N,E,T	
Temperature range	K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃	
Input Precision	±0.5℃（full scale）	
Input Speed	500ms/time	
Data output	Each digit 0.1℃	
Input filter	Configurable	

IO specification parameters

DI+RTD (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-16DI-8RTD-**
Appearance	
Digital input channel	16
Input type	PNP&NPN
Electric isolation	Optocoupler,500VDC between the output and the internal communication
Nominal voltage	24VDC(-15%~+20%)
“1” signal	11~30V
“0” signal	0~5V
Input filter	Min.2ms
RTD input Channel	8
Wiring tpye	2-wire or 3-wire（Default 3-wire）
ADC Resolution	16bit (including symbols)
Sensor types	PT100，Cu50
Temperature range	-200℃~+850℃(PT100),-50℃~+150℃(Cu50)
Input Precision	±0.5℃（full scale）
Input Speed	500ms/time
Data output	Each digit 0.1℃
Input filter	Configurable

DI+TC (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-16DI-8TC-**
Appearance	
Digital input channel	16
Input type	PNP&NPN
Electric isolation	Optocoupler,500VDC between the output and the internal communication
Nominal voltage	24VDC(-15%~+20%)
“1” signal	11~30V
“0” signal	0~5V
Input filter	Min.2ms
TC input Channel	8
Wiring tpye	2-wire
ADC Resolution	16bit (including symbols)
Sensor types	K,S,R,B,J,N,E,T
Temperature range	K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃
Input Precision	±0.5℃（full scale）
Input Speed	500ms/time
Data output	Each digit 0.1℃
Input filter	Configurable

IO specification parameters

DO+RTD (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-16DOP-8RTD-**	SRX-16DON-8RTD-**
Appearance		
Digital output Channel	16	16
Output type	PNP	NPN
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24VDC(-15%~+20%)	
Nominal current	Max. 0.5A per channel	
Electric isolation	Optocoupler,500VDC between the output and the internal communication	
Port protection	Short-circuit and overload protection	
RTD input Channel	8	
Wiring tpye	2-wire or 3-wire (Default 3-wire)	
ADC Resolution	16bit (including symbols)	
Sensor types	PT100，Cu50	
Temperature range	-200℃~+850℃(PT100),-50℃~+150℃(Cu50)	
Input Precision	±0.5℃ (full scale)	
Input Speed	500ms/time	
Data output	Each digit 0.1℃	
Input filter	Configurable	

DO+TC (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-16DOP-8TC-**	SRX-16DON-8TC-**
Appearance		
Digital output Channel	16	16
Output type	PNP	NPN
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24VDC(-15%~+20%)	
Nominal current	Max. 0.5A per channel	
Electric isolation	Optocoupler,500VDC between the output and the internal communication	
Port protection	Short-circuit and overload protection	
TC input Channel	8	
Wiring tpye	2-wire	
ADC Resolution	16bit (including symbols)	
Sensor types	K,S,R,B,J,N,E,T	
Temperature range	K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃	
Input Precision	±0.5℃ (full scale)	
Input Speed	500ms/time	
Data output	Each digit 0.1℃	
Input filter	Configurable	

IO specification parameters

AI+RTD (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-6AI-8RTD-**
Appearance	
Analog input channel	6
Input mode	Current & voltag mode
ADC resolution	16bit (including symbols)
Input range	0~20mA/4~20mA/0~10V/±10V
Input resistance	Current input≤125Ω，voltage input≥10MΩ
Input Precision	±0.1%（full scale）
Input Speed	1ms/time
Off-line diagnosis	When the mode is selected as 4~20 mA, the output is -27648
Input filter	Configurable
RTD input Channel	8
Wiring tpye	2-wire or 3-wire（Default 3-wire）
ADC Resolution	16bit (including symbols)
Sensor types	PT100，Cu50
Temperature range	-200℃~+850℃(PT100),-50℃~+150℃(Cu50)
Input Precision	±0.5℃（full scale）
Input Speed	500ms/time
Data output	Each digit 0.1℃
Input filter	Configurable

AO+RTD (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-4AO-8RTD-**
Appearance	
Analog output channel	4
Output mode	Current & voltag mode
Resolution ratio	16bit (including symbols)
Output range	0~20mA/4~20mA/0~10V
Output resistance	Current≤500Ω，Current output≥1KΩ
Output Precision	±0.1%（full scale）
Output Speed	1ms/time
RTD input Channel	8
Wiring tpye	2-wire
ADC Resolution	16bit (including symbols)
Sensor types	K,S,R,B,J,N,E,T
Temperature range	K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃
Input Precision	±0.5℃（full scale）
Input Speed	500ms/time
Data output	Each digit 0.1℃
Input filter	Configurable

IO specification parameters

AI+TC (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-6AI-8TC-**
Appearance	
Analog input channel	6
Input mode	Current & voltag mode
Resolution ratio	16bit (including symbols)
Input range	0~20mA/4~20mA/0~10V/±10V
Input resistance	Current input≤125Ω，voltage input≥10MΩ
Input Precision	±0.1%（full scale）
Input Speed	1ms/time
Off-line diagnosis	When the mode is selected as 4~20 mA, the output is -27648
Input filter	Configurable
TC input Channel	8
Wiring tpye	2-wire
ADC Resolution	16bit (including symbols)
Sensor types	K,S,R,B,J,N,E,T
Temperature range	K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃
Input Precision	±0.5℃（full scale）
Input Speed	500ms/time
Data output	Each digit 0.1℃
Input filter	Configurable

AI+TC (The suffix ** can be set as PN\EP\CE\EA\MT\RTU to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT\Modbus TCP\Modbus RTU**)

Model	SRX-4AO-8TC-**
Appearance	
Analog output channel	4
Output mode	Current & voltag mode
Resolution ratio	16bit (including symbols)
Output range	0~20mA/4~20mA/0~10V
Output resistance	Current≤500Ω，Current output≥1KΩ
Output Precision	±0.1%（full scale）
Output Speed	1ms/time
TC input Channel	8
Wiring tpye	2-wire
ADC Resolution	16bit (including symbols)
Sensor types	K,S,R,B,J,N,E,T
Temperature range	K: -200℃~+1300℃ S: 0℃~+1600℃ R: 0℃~+1600℃ B: +600℃~+1820℃ J: -40℃~-750℃ N: -200℃~+1300℃ E: -200℃~900℃ T: -200℃~+350℃
Input Precision	±0.5℃（full scale）
Input Speed	500ms/time
Data output	Each digit 0.1℃
Input filter	Configurable

05 Distributed I/O with quick wiring- & convenient installation

Integrated MR□ series

Panel Type Quick Wring Distributed I/O Module

MR□ series

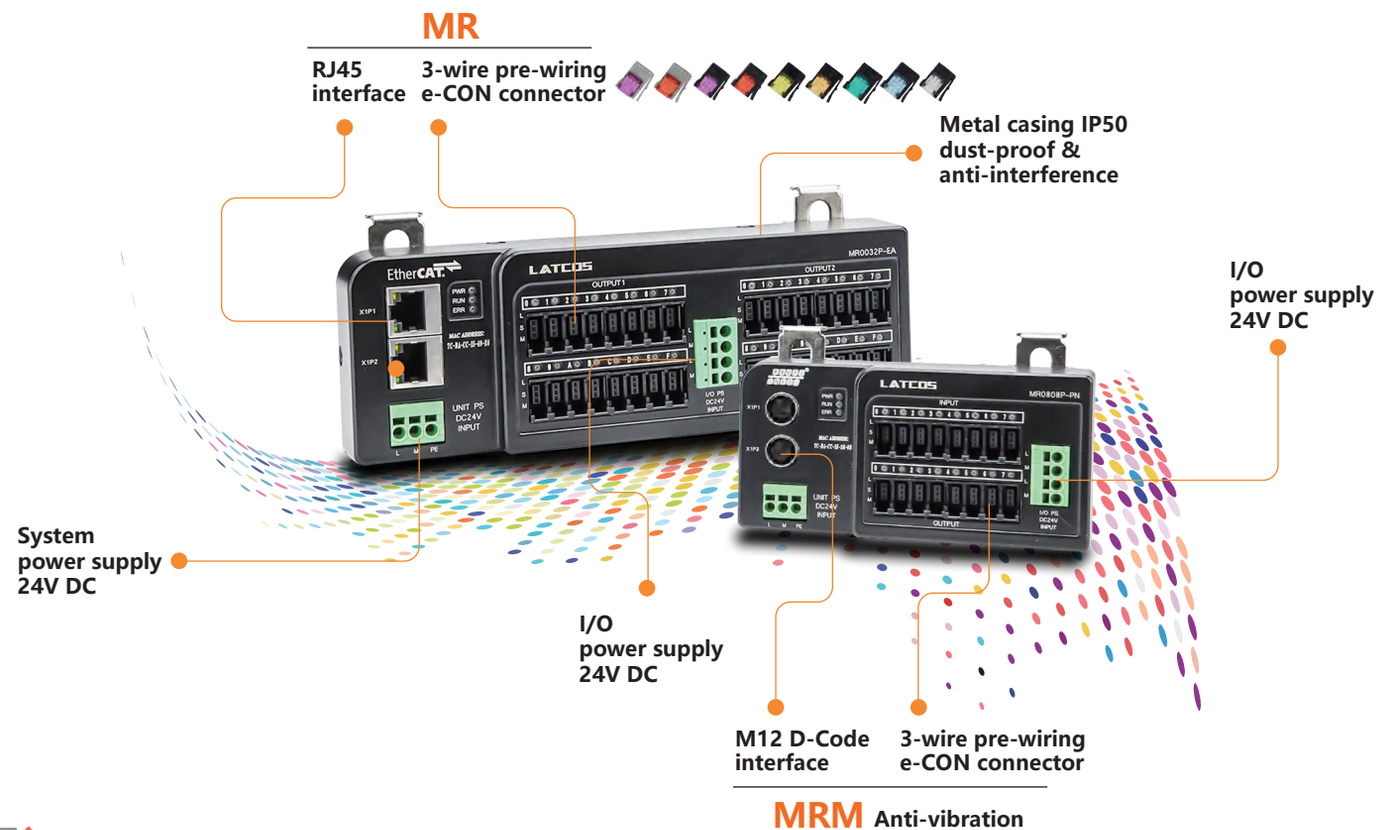
Panel Type Quick-wiring-Distributed I/O Module

Isolated power | Quick wiring | IP50 protection | Visualization Dust-proof box

Product Feature

The MR□ series panel-type quick-wiring distributed IO features wire beautification and labor-saving. With a metal casing and isolated power supply design, it is suitable for non-standard automated equipment and production lines in various industries such as 3C electronics, automotive parts, semiconductors, lithium batteries, and medical devices. It supports rail mounting and hole mounting, facilitating nearby installation and wiring with solenoid valves and sensors. The three-wire connector effectively improves wiring efficiency and saves the use of external terminals, offering a significant advantage in overall cost.

Product Appearance



Application Scene

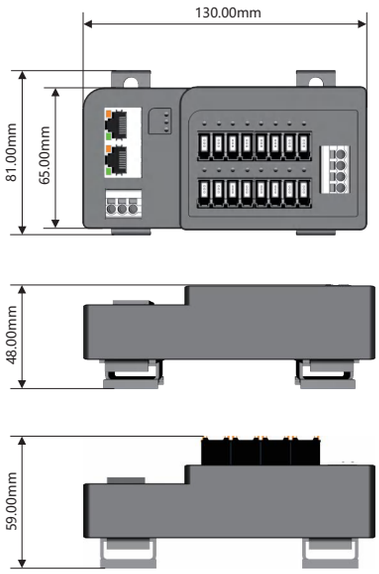

Armarium

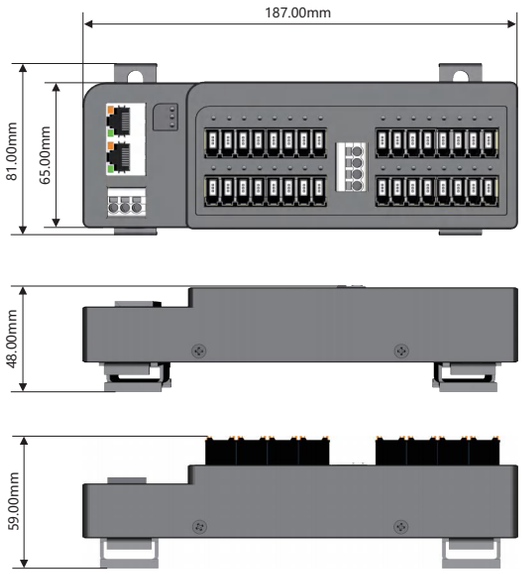

Intelligent Agriculture

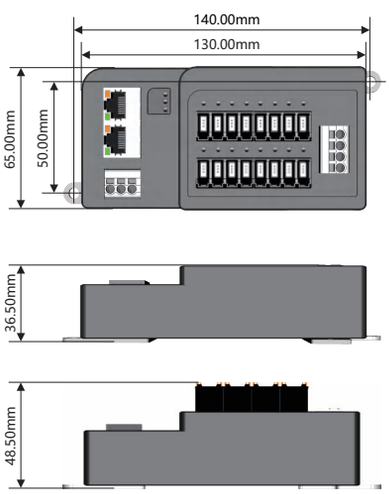

Automobile

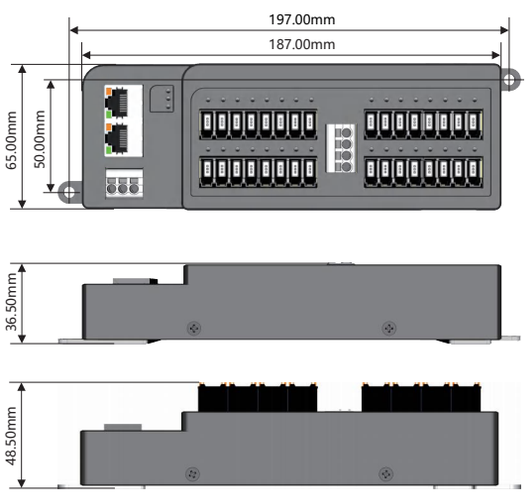

Lithium Energy

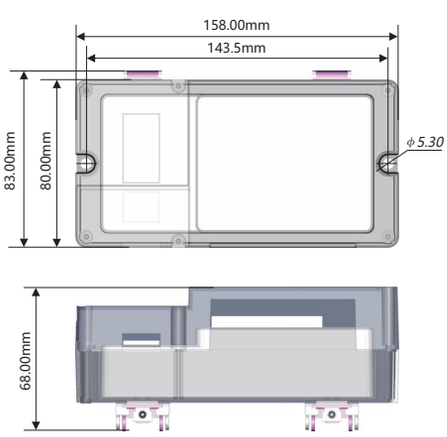
Overall Size

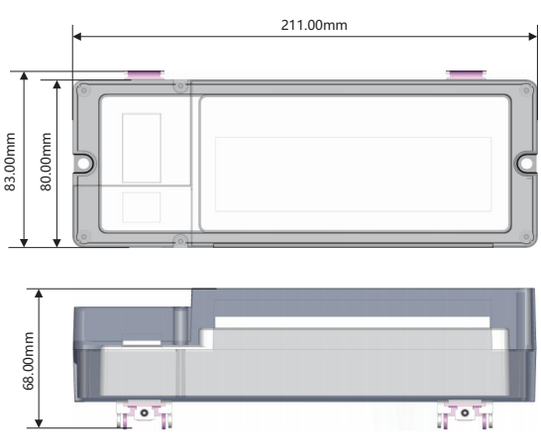












Communication & General Parameters

PROFINET

Series prefix	MR	MRS	MRM
Bus Interface	2xRJ45，support cascading	2xRJ45，support cascading	2xM12，support cascading
Power interface	Plug-in 2*2Pin spring terminal		
I/O Port	3Pin e-CON connector	Plug-in 2*3Pin spring terminal	3Pin e-CON connector
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	150mA		
Protocol	PROFINET RT		
Communication rate	100Mbps,Self-adaption		
Addressing	Configuration via PROFINET master station software		
Protection class	IP20		
Installation method	DIN35 rail or fixed installation		
Operating temperature	-20℃~+75℃		

EtherNet/IP

Series prefix	MR	MRS	MRM
Bus Interface	2xRJ45，support cascading	2xRJ45，support cascading	2xM12，support cascading
Power interface	Plug-in 2*2Pin spring terminal		
I/O Port	3Pin e-CON connector	Plug-in 2*3Pin spring terminal	3Pin e-CON connector
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	150mA		
Protocol	EtheNet/IP		
Communication rate	100Mbps,Self-adaption		
Addressing	Configuration via LAE-config software		
Protection class	IP20		
Installation method	DIN35 rail or fixed installation		
Operating temperature	-20℃~+75℃		

CC-Link IE FieldBasic

Series prefix	MR	MRS	MRM
Bus Interface	2xRJ45，support cascading	2xRJ45，support cascading	2xM12，support cascading
Power interface	Plug-in 2*2Pin spring terminal		
I/O Port	3Pin e-CON connector	Plug-in 2*3Pin spring terminal	3Pin e-CON connector
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	150mA		
Protocol	CC-Link IE FieldBasic		
Communication rate	100Mbps,Self-adaption		
Addressing	Configuration via LAE-config software		
Protection class	IP20		
Installation method	DIN35 rail or fixed installation		
Operating temperature	-20℃~+75℃		

EtherCAT

Series prefix	MR	MRS	MRM
Bus Interface	2xRJ45，support cascading	2xRJ45，support cascading	2xM12，support cascading
Power interface	Plug-in 2*2Pin spring terminal		
I/O Port	3Pin e-CON connector	Plug-in 2*3Pin spring terminal	3Pin e-CON connector
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	150mA		
Protocol	EtherCAT		
Communication rate	100Mbps,Self-adaption		
Addressing	Configuration via EtherCAT master station software		
Protection class	IP20		
Installation method	DIN35 rail or fixed installation		
Operating temperature	-20℃~+75℃		

IO Specification Parameters

16DI PNP (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR1600P-**	MRS1600P-**	MRM1600P-**
Appearance	 Type：RJ45/e-CON	 Type：RJ45/ Spring terminal	 Type：M12/e-CON
Digital input channel	16		
Input type	PNP		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Nominal voltage	24VDC(-15%~+20%)		
“1” signal	11~30V		
“0” signal	0~5V		
Input filter	Min.2ms		

16DI NPN (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR1600N-**	MRS1600N-**	MRM1600N-**
Appearance	 Type：RJ45/e-CON	 Type：RJ45/ Spring terminal	 Type：M12/e-CON
Digital input channel	16		
Input type	NPN		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Nominal voltage	24VDC(-15%~+20%)		
“1” signal	11~30V		
“0” signal	0~5V		
Input filter	Min.2ms		

32DI PNP (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR3200P-**	MRS3200P-**	MRM3200P-**
Appearance	 Type：RJ45/e-CON	 Type：RJ45/ Spring terminal	 Type：M12/e-CON
Digital input channel	32		
Input type	PNP		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Nominal voltage	24VDC(-15%~+20%)		
“1” signal	11~30V		
“0” signal	0~5V		
Input filter	Min.2ms		

32DI NPN (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR3200N-**	MRS3200N-**	MRM3200N-**
Appearance	 Type：RJ45/e-CON	 Type：RJ45/ Spring terminal	 Type：M12/e-CON
Digital input channel	32		
Input type	NPN		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Nominal voltage	24VDC(-15%~+20%)		
“1” signal	11~30V		
“0” signal	0~5V		
Input filter	Min.2ms		

IO Specification Parameters

16DO PNP (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR0016P-**	MRSS0016P-**	MRM0016P-**
Appearance	 Type: RJ45/e-CON	 Type: RJ45/ Spring terminal	 Type: M12/e-CON
Digital output Channel	16		
Output type	PNP		
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	Max. 0.5A per channel		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Port protection	Overvoltage and overcurrent protection, reverse current protection		

16DO NPN (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR0016N-**	MRS0016N-**	MRM0016N-**
Appearance	 Type: RJ45/e-CON	 Type: RJ45/ Spring terminal	 Type: M12/e-CON
Digital output Channel	16		
Output type	NPN		
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	Max. 0.5A per channel		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Port protection	Overvoltage and overcurrent protection, reverse current protection		

32DO PNP (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR0032P-**	MRS0032P-**	MRM0032P-**
Appearance	 Type: RJ45/e-CON	 Type: RJ45/ Spring terminal	 Type: M12/e-CON
Digital output Channel	32		
Output type	PNP		
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	Max. 0.5A per channel		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Port protection	Overvoltage and overcurrent protection, reverse current protection		

32DO NPN (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR0032N-**	MRS0032N-**	MRM0032N-**
Appearance	 Type: RJ45/e-CON	 Type: RJ45/ Spring terminal	 Type: M12/e-CON
Digital output Channel	32		
Output type	NPN		
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	Max. 0.5A per channel		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Port protection	Overvoltage and overcurrent protection, reverse current protection		

IO Specification Parameters

8DI+8DO PNP (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR0808P-**	MRS0808P-**	MRM0808P-**
Appearance	 Type：RJ45/e-CON	 Type：RJ45/ Spring terminal	 Type：M12/e-CON
Digital input channel	8		
Input type	PNP		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Nominal voltage	24VDC(-15%~+20%)		
"1" signal	11~30V		
"0" signal	0~5V		
Input filter	Min.2ms		
Digital output Channel	8		
Output type	PNP		
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	Max. 0.5A per channel		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Port protection	Overvoltage and overcurrent protection, reverse current protection		

8DI+8DO NPN (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR0808N-**	MRS0808N-**	MRM0808N-**
Appearance	 Type：RJ45/e-CON	 Type：RJ45/ Spring terminal	 Type：M12/e-CON
Digital input channel	8		
Input type	NPN		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Nominal voltage	24VDC(-15%~+20%)		
"1" signal	11~30V		
"0" signal	0~5V		
Input filter	Min.2ms		
Digital output Channel	8		
Output type	NPN		
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	Max. 0.5A per channel		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Port protection	Overvoltage and overcurrent protection, reverse current protection		

IO Specification Parameters

16DI+16DO PNP (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR1616P-**	MRS1616P-**	MRM1616P-**
Appearance	 Type：RJ45/e-CON	 Type：RJ45/ Spring terminal	 Type：M12/e-CON
Digital input channel	16		
Input type	PNP		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Nominal voltage	24VDC(-15%~+20%)		
"1" signal	11~30V		
"0" signal	0~5V		
Input filter	Min.2ms		
Digital output Channel	16		
Output type	PNP		
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	Max. 0.5A per channel		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Port protection	Overvoltage and overcurrent protection, reverse current protection		

16DI+16DO (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	MR1616N-**	MRS1616N-**	MRM1616N-**
Appearance	 Type：RJ45/e-CON	 Type：RJ45/ Spring terminal	 Type：M12/e-CON
Digital input channel	16		
Input type	NPN		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Nominal voltage	24VDC(-15%~+20%)		
"1" signal	11~30V		
"0" signal	0~5V		
Input filter	Min.2ms		
Digital output Channel	16		
Output type	NPN		
Load type	Resistive load, inductive load, and lamp load		
Nominal voltage	24VDC(-15%~+20%)		
Nominal current	Max. 0.5A per channel		
Electric isolation	Optocoupler,500VDC between the output and the internal communication		
Port protection	Overvoltage and overcurrent protection, reverse current protection		

e-CON Connector

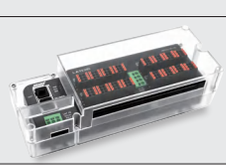
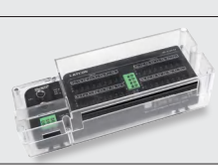
*Please select the type based on the actual specifications of the cable.

Model	Appearance	Colour	Outer diameter(mm)	Conductor specification
EK-03P-VTG		Purple (gray shell)	0.6~0.8	AWG28-26 0.08~0.13mm²
EK-03P-RDG		Red (gray shell)	0.8~1.0	
EK-03P-VT		Purple	0.6~0.8	AWG26-24 0.13~0.21mm²
EK-03P-RD		Red	0.8~1.0	
EK-03P-YW		Yellow	1.0~1.2	
EK-03P-OG		Orange	1.2~1.6	
EK-03P-GN		Green	1.0~1.2	AWG22-24 0.32~0.50mm²
EK-03P-BU		Blue	1.2~1.6	
EK-03P-GY		Gray	1.6~2.0	

Protection Box

*Supports rail installation and fixed installation (Please note the installation method when placing an order)

The short protection box is compatible with the 16-point module.			
Model	MRSHELL-16		
Appearance			

The long protection box is compatible with the 32-point module.			
Model	MRSHELL-32		
Appearance			

06 Distributed I/O Suitable For Horizontal-Wiring In Narrow Cabinets

Integrated JP series

Fency Screw Tpye Distributed I/O Module

JP series

Fency Screw Tpye
Distributed I/O Module

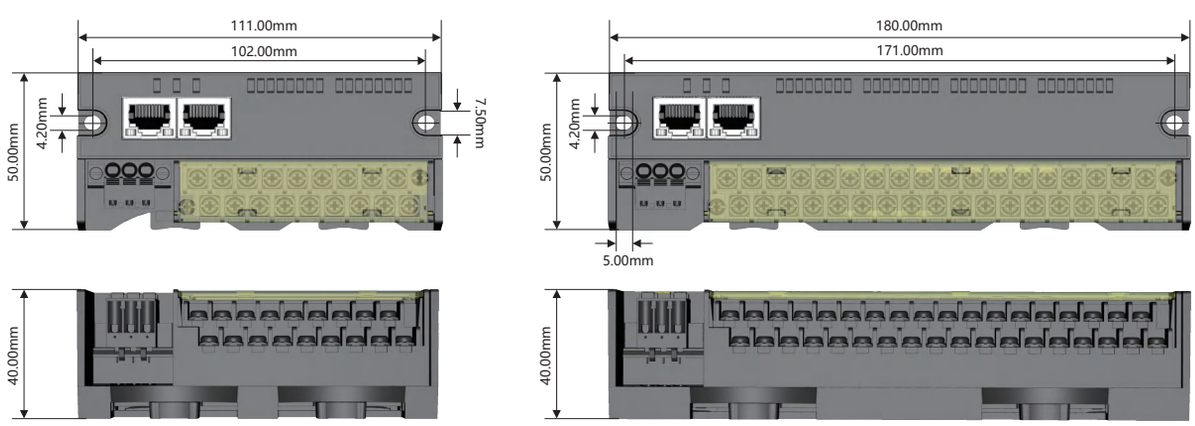
Horizontal design | screw termina | Relay optional | Flexible installation

Product Feature

The JP series fency screw type distributed I/O is a compact I/O module designed to optimize the wiring process inside the cabinet. Its horizontal design is suitable for installation in control cabinets with limited space. This series of modules integrates traditional fence-type screw terminals with fieldbus technology. By simply connecting signals and loads to the module, PLC signal acquisition and direct control of high-power loads can be achieved through a single network cable, reducing the cost of traditional terminals and intermediate relays.

Product Appearance

Overall Size



Communication & General Parameters

PROFINET

Bus Interface	2xRJ45，support cascading
Power interface	Plug-in 3Pin spring terminal
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
Protocol	PROFINET RT
Communication rate	100Mbps,Self-adaption
Addressing	Configuration via PROFINET master station software
Protection class	IP20
Installation method	DIN35 rail or fixed installation
Operating temperature	-20℃~+75℃

EtherNet/IP

Bus Interface	2xRJ45，support cascading
Power interface	Plug-in 3Pin spring terminal
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
Protocol	EtherNet/IP
Communication rate	100Mbps,Self-adaption
Addressing	Configuration via LAE-config software
Protection class	IP20
Installation method	DIN35 rail or fixed installation
Operating temperature	-20℃~+75℃

CC-Link IE FieldBasic

Bus Interface	2xRJ45，support cascading
Power interface	Plug-in 3Pin spring terminal
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
Protocol	CC-Link IE FieldBasic
Communication rate	100Mbps,Self-adaption
Addressing	Configuration via LAE-config software
Protection class	IP20
Installation method	DIN35 rail or fixed installation
Operating temperature	-20℃~+75℃

EtherCAT

Bus Interface	2xRJ45，support cascading
Power interface	Plug-in 3Pin spring terminal
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
Protocol	EtherCAT
Communication rate	100Mbps,Self-adaption
Addressing	Configuration via LAE-config software
Protection class	IP20
Installation method	DIN35 rail or fixed installation
Operating temperature	-20℃~+75℃

IO Specification Parameters

Digital input (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	**JP-D1600-****	**JP-D3200-****
Appearance		
I/O interface	18Pin fence type screw terminal	36Pin fence type screw terminal
Digital input channel	16	32
Input type	PNP & NPN	
Electric isolation	Optocoupler,500VDC between the output and the internal communication	
Nominal voltage	24VDC(-15%~+20%)	
“1” signal	11~30V	
“0” signal	0~5V	
Input filter	Min.2ms	

Digital output (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	**JP-D0016P-****	**JP-D0016N-****	**JP-D0032P-****	**JP-D0032N-****
Appearance				
I/O interface	18Pin fence type screw terminal		36P fence type screw terminal	
Digital output Channel	16		32	
Output type	PNP	NPN	PNP	NPN
Load type	Resistive load, inductive load, and lamp load			
Nominal voltage	24VDC(-15%~+20%)			
Nominal current	Max. 0.5A per channel			
Electric isolation	Optocoupler,500VDC between the output and the internal communication			
Port protection	Overvoltage and overcurrent protection, reverse current protection			

IO Specification Parameters

Digital input & output (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	JP-D0808P-**	JP-D0808N-**	JP-D1616P-**	JP-D1616N-**
Appearance				
I/O interface	18Pin fence type screw terminal		36Pin fence type screw terminal	
Digital input channel	8		16	
Input type	PNP	NPN	PNP & NPN	
Electric isolation	Optocoupler,500VDC between the output and the internal communication			
Nominal voltage	24VDC(-15%~+20%)			
“1” signal	11~30V			
“0” signal	0~5V			
Input filter	Min.2ms			
Digital output Channel	8		16	
Output type	PNP	NPN	PNP	NPN
Load type	Resistive load, inductive load, and lamp load			
Nominal voltage	24VDC(-15%~+20%)			
Nominal current	Max. 0.5A per channel			
Electric isolation	Optocoupler,500VDC between the output and the internal communication			
Port protection	Overvoltage and overcurrent protection, reverse current protection			

Digital relay output (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	JP-D0008R-**	JP-D0016R-**
Appearance		
I/O interface	18Pin fence type screw terminal	36Pin fence type screw terminal
Digital output Channel	8	16
Output type	Relay	
Drive capability	5A 250VAC/30VDC	
Load type	Resistive load, inductive load, and lamp load	
max. switching current	5A	
max. switching voltage	250VAC/30VDCT	
Max. switching power	1250VA/150W	
Electrical endurance	1×10^5 times (AgNi+gold-plating，0.5A 125VAC，Resistive load，40°C，1s on 9s off)	
Electric isolation	Overvoltage and overcurrent protection, reverse current protection	

07

Field-level Distributed I/O Capable-Of Withstanding Harsh Working Conditions

Integrated STORM67 series

High Protection Field Distributed I/O Module

STORM67 series

High Protection
Field Distributed I/O Module

Flexible on site mounting

4 types of ethernet protocols

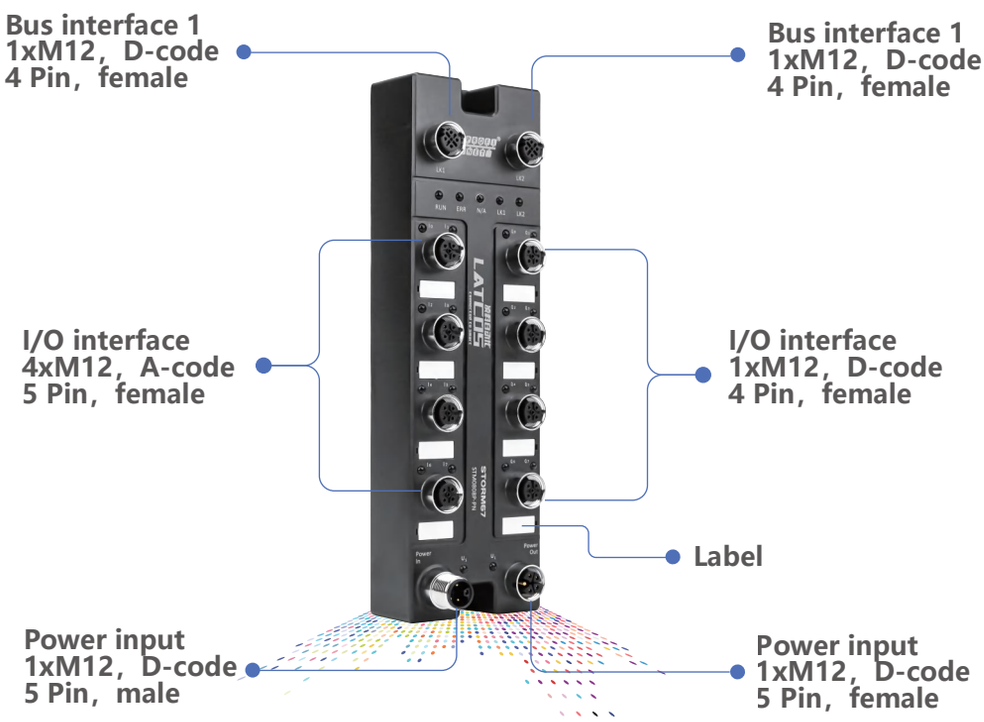
M12 fastening connection

IP67 water-proof

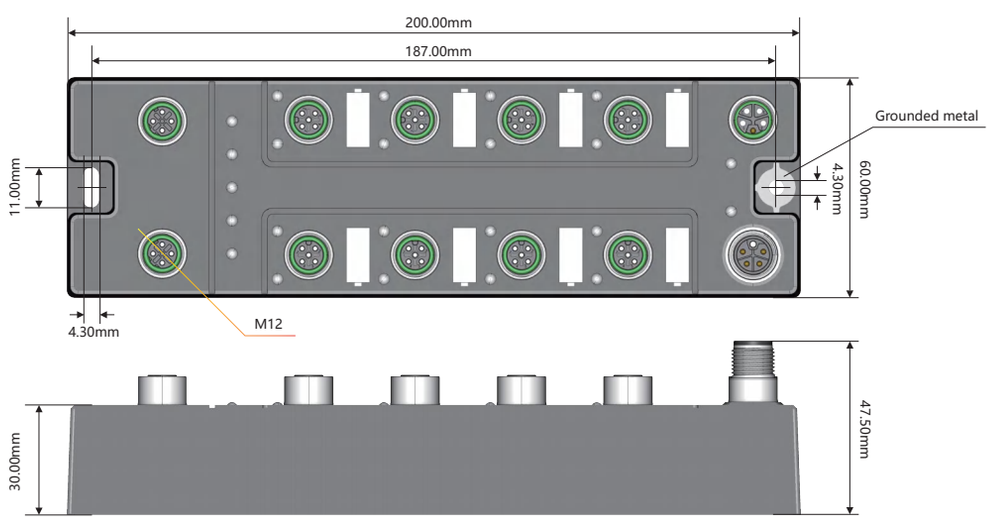
产品特点

The STORM67 series of high-protection field-level distributed I/O represents an optimal fieldbus solution designed for demanding on-site applications that require both robust performance and cost-effectiveness. Featuring standardized M12 connectivity across the entire product line, the system ensures secure and reliable connections for both network and signal interfaces, effectively mitigating signal degradation caused by vibration. The modules are constructed with reinforced plastic housings and employ a potting process that achieves an IP67 protection rating, making them ideally suited for automation scenarios such as robotics, cable carrier systems, CNC gantries, and die stamping operations.

产品外观



外形尺寸



Communication & General Parameters

PROFINET

Bus interface	2×M12，D-Code，4P，female
Power Inerface	Power In：1×M12，L-Code，5P，male；Power Out：1×M12，L-Code，5P，female
I/O interface	8×M12，A-Code，5P，female
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
protocol	PROFINET RT
Communication rate	100Mbps, self-adaption
Addressing	Configure via the PROFINET master station software
Protection class	IP67
Installation method	Fixed installation
Operating temperature	-20℃~+75℃

EtherNet/IP

Bus interface	2×M12，D-Code，4P，female
Power Inerface	Power In：1×M12，L-Code，5P，male；Power Out：1×M12，L-Code，5P，female
I/O interface	8×M12，A-Code，5P，female
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
protocol	EtherNet/IP
Communication rate	100Mbps, self-adaption
Addressing	Configuration via LAE-config software
Protection class	IP67
Installation method	Fixed installation
Operating temperature	-20℃~+75℃

CC-Link IE FieldBasic

Bus interface	2×M12，D-Code，4P，female
Power Inerface	Power In：1×M12，L-Code，5P，male；Power Out：1×M12，L-Code，5P，female
I/O interface	8×M12，A-Code，5P，female
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
protocol	CC-Link IE FieldBasic
Communication rate	100Mbps, self-adaptio
Addressing	Configuration via LAE-config software
Protection class	IP67
Installation method	Fixed installation
Operating temperature	-20℃~+75℃

EtherCAT

Bus interface	2×M12，D-Code，4P，female
Power Inerface	Power In：1×M12，L-Code，5P，male；Power Out：1×M12，L-Code，5P，female
I/O interface	8×M12，A-Code，5P，female
Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
protocol	EtherCAT
Communication rate	100Mbps, self-adaptio
Addressing	Configuration via EtherCAT master station software
Protection class	IP67
Installation method	Fixed installation
Operating temperature	-20℃~+75℃

IO Specification Parameters

Digital input (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	**STM-1600P-****	**STM-1600N-****
Appearance		
Input channels	16	16
Input type	PNP	NPN
Electric isolation	Optocoupler,500VDC between the output and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
“1” signal	11~30V	
“0” signal	0~5V	
Input filter	Min.2ms	

Digital output (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	**STM-0016P-****	**STM-0016N-****
Appearance		
Output Channels	16	16
Output type	PNP	NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24V DC(-15%~+20%)	
Nominal current	Max. 0.5A per channel	
Port protection	Short-circuit and overload protection	

Digital input & output (The suffix ** can be set as PN\EP\CE\EA to express **PROFINET\EtherNet/IP\CC-Link IE Fieldbasic\EtherCAT**)

Model	**STM-0808P-****	**STM-0808N-****
Appearance		
Input channels	8	8
Input type	PNP	PNP
Electric isolation	Optocoupler,500VDC between the output and the internal communication	
Nominal voltage	24V DC(-15%~+20%)	
“1” signal	11~30V	
“0” signal	0~5V	
Input filter	Min.2ms	
Output Channels	8	8
Output type	PNP	NPN
Electric isolation	Optocoupler,500VDC between the input and the internal communication	
Load type	Resistive load, inductive load, and lamp load	
Nominal voltage	24V DC(-15%~+20%)	
Nominal current	Max. 0.5A per channel	
Port protection	Short-circuit and overload protection	

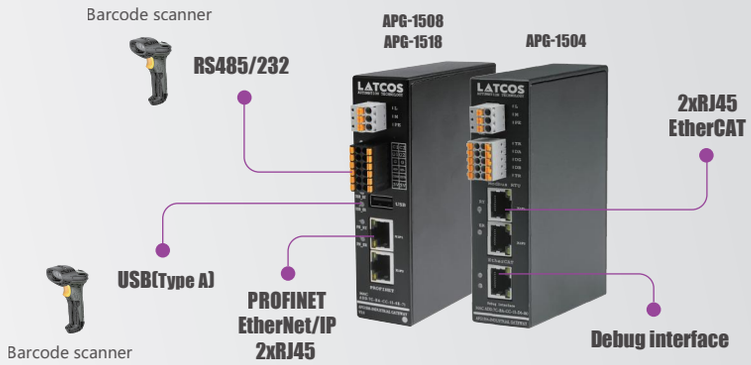
08 Build Data Interaction For Terminal Devices- Quickly Without Programming

GATEWAY APG series

Industrial Gateway Module

APG series

Industrial Gateway Module For Protocol Conversion



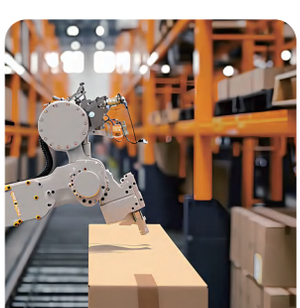
Sturdy metal casing | No need to program | Message set up spported | Intelligent fault diagnosis

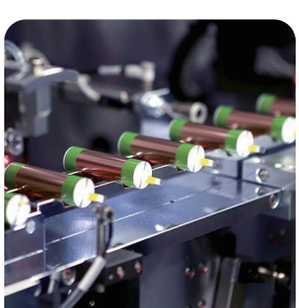
Product Feature

APG industrial gateway is a module for converting industrial communication protocols. It converts various open protocols such as PROFINET into the standard Modbus RTU protocol to solve the heterogeneous interconnection problem of different bus networks in industrial sites. It is often used to achieve signal acquisition and control between frequency converters, various instruments, barcode scanners and other RS485 devices and the main control unit, realizing the digitization of end devices and enhancing the intelligence level of industrial sites.

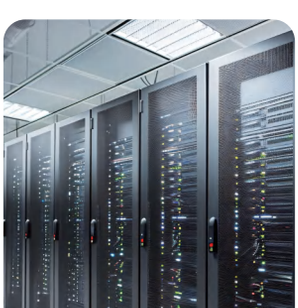
Product Appearance

Application Scene


Warehousing


CNC Control

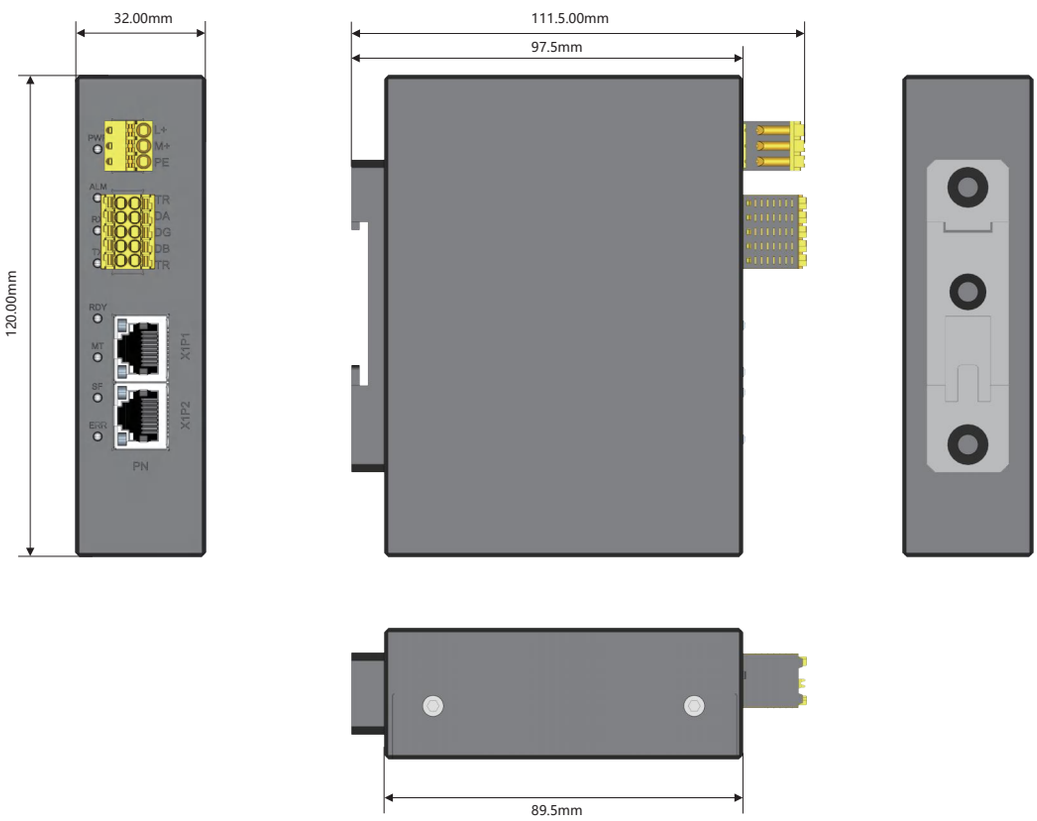

Intelligent City


Building Automation

General Parameters

Nominal voltage	24V DC(-15%~+20%)
Nominal current	150mA
Protection class	IP50
Installation method	DIN35 rail
Operating temperature	-20℃~+75℃

Overall Size



Specification Parameters

Model	APG-1501	APG-1502	APG-1512
Appearance			
Bus interface	D-sub9 female	2xRJ45，support cascading	2xRJ45，support cascading
RS485 interface	2x5Pin plug in string terminal		
Power interface	3Pin plug in string terminal		
Protocol 1	PROFIBUS-DP V0	PROFINET RT	PROFINET RT
Communication rate	12Mbps (Max),Self-adaption	100Mbps,Self-adaption	100Mbps,Self-adaption
Addressing	01~99 (via DIP switch)	Via PROFINET master software	Via PROFINET master software
Communication isolatio	Yes		
Port protection	Air discharge 15kV, contact discharge 8kV（IEC61000-4-2）		
Message slot	48		
Protocol 2	Modbus RTU Master	Modbus RTU Master	Modbus RTU Slaver
Function code	01H,02H,03H,04H,05H,06H,0FH,10H		
Baud rate（kbps）	2400,4800,19200,38400,57600,115200		
Check bit and stop bit	Configurable		
Application scenarios	Suitable for terminal devices those have RS485 port such as frequency converters, instruments, sensors, etc.		

Model	APG-1503	APG-1504
Appearance		
Bus interface	2XRJ45，support cascading	
RS485 interface	2x5Pin plug in string terminal	
Power interface	3Pin plug in string terminal	
Protocol 1	EtherNet/IP	EtherCAT
Communication rate	100Mbps,Self-adaption	100Mbps,Self-adaption
Addressing	Configurate via LAE-config software	Configurate via EtherCAT master software
Communication isolatio	Yes	
Port protection	Air discharge 15kV, contact discharge 8kV（IEC61000-4-2）	
Message slot	48	
Protocol 2	Modbus RTU Master	
Function code	01H,02H,03H,04H,05H,06H,0FH,10H	
Baud rate（kbps）	2400,4800,19200,38400,57600,115200	4800,19200,38400,57600,115200,25600
Check bit and stop bit	Configurable	
Application scenarios	Suitable for terminal devices with RS485 port such as frequency converters, instruments, sensors, etc.	

Specification Parameters

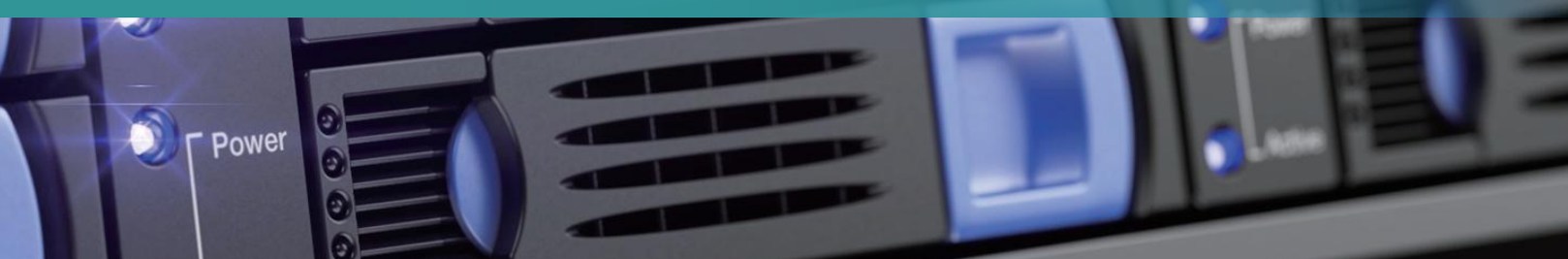
Model	APG-1505	APG-1506
Appearance		
Bus interface	2XRJ45，support cascading	
RS485 interface	2x5Pin plug in string terminal	
Power interface	3Pin plug in string terminal	
Protocol 1	CC-Link IE FieldBasic	Modbus TCP
Communication rate	100Mbps,Self-adaption	100Mbps,Self-adaption
Addressing	Configurate via LAE-config software	Configurate via LAE-config software
Communication isolatio	Yes	
Port protection	Air discharge 15kV, contact discharge 8kV（IEC61000-4-2）	
Message slot	48	
Protocol 2	Modbus RTU Master	
Function code	01H,02H,03H,04H,05H,06H,0FH,10H	
Baud rate（kbps）	2400,4800,19200,38400,57600,115200	
Check bit and stop bit	Configurable	
Application scenarios	Suitable for terminal devices with RS485 port such as frequency converters, instruments, sensors, etc.	

Model	APG-1508	APG-1518
Appearance		
Bus interface	2XRJ45，support cascading	
RS485/232接口	2x5Pin plug in string terminal	
Power interface	3Pin plug in string terminal	
Protocol 1	PROFINET RT	EtherNet/IP
Communication rate	100Mbps,Self-adaption	
Addressing	Configurate via LAE-config software	
Port types	1xUSB(Type A)，1xRS232，1xRS485	
Communication isolatio	Yes（Including USB）	
USB protocol	HID（High speed / Full speed / Low speed）	
Baud rate（kbps）	2400,4800,19200,38400,57600,115200	
Check bit and stop bit	Configurable	
Data length	Maximum 256 Byte	
Digital output	2 channels NPN or PNP output can be used for scan triggering	
Application scenarios	Suitable for industrial barcode scanners and other terminal devices	

09 Create A Reliable Communication-Environment For Automation Equipment

Unmanaged **PENA Series**

Rail-mounted Industrial Switch



PENA series

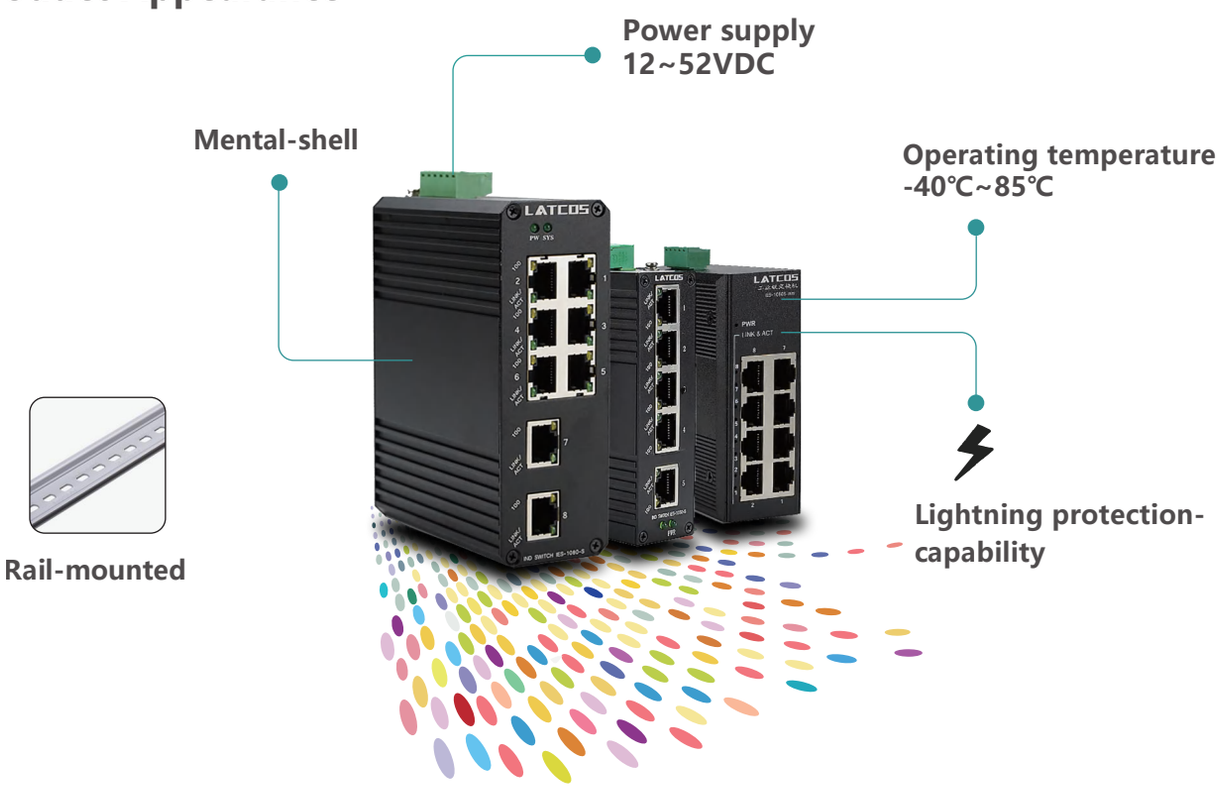
Unmanaged Rail-mounted-Industrial Switch

Sturdy metal casing | Wide-range voltage | Lightning protection design | High temperature resistance

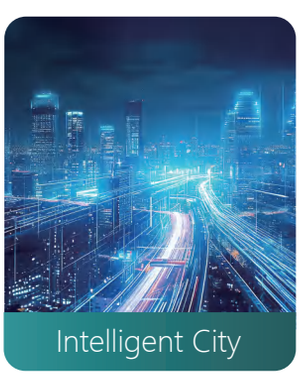
Product Feature

The PENA series industrial switches are used for real-time Ethernet data transmission in complex industrial environments. When designing Ethernet, due to its adoption of Carrier Sense Multiple Access with Collision Detection (CSMA/CD mechanism), its reliability is greatly reduced when applied in complex industrial environments. The Li ıgke Ethernet switch adopts a storage conversion switching method to simultaneously increase the speed of Ethernet communication, ensu ıng the reliable and stable operation of Ethernet in harsh industrial environments.

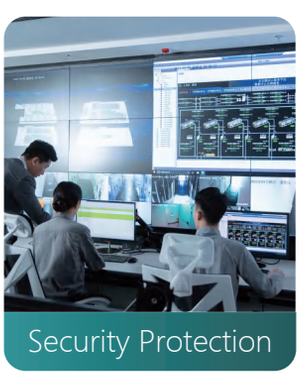
Product Appearance



Application Scene


Intelligent City


Device Connection

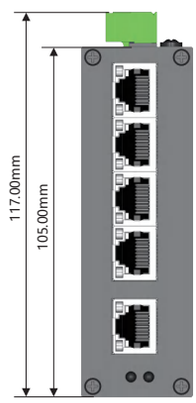

Security Protection

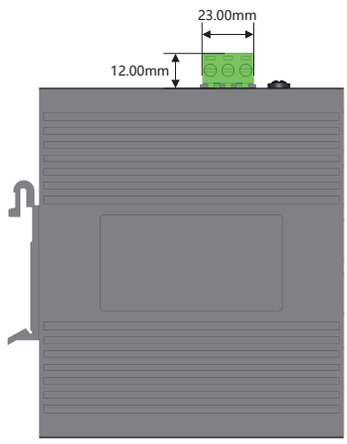

Smart Factory

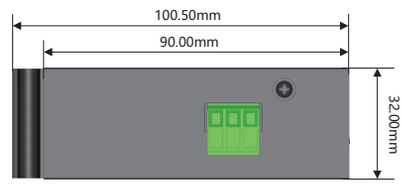
General Parameters

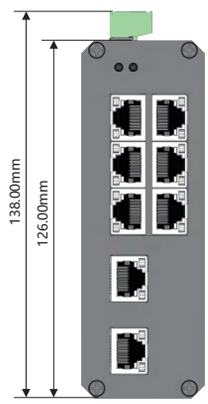
Nominal voltage	12~52VDC
Protection class	IP50
Installation method	DIN35 rail
Operating temperature	-40℃~+85℃
Operating humidity	5%~90%

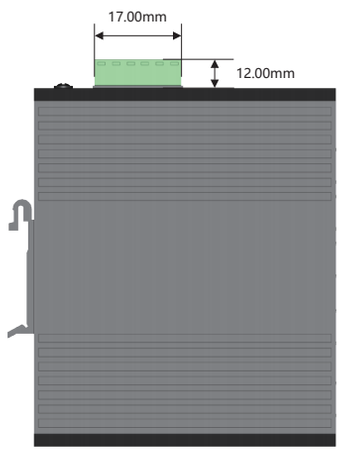
Overall Size

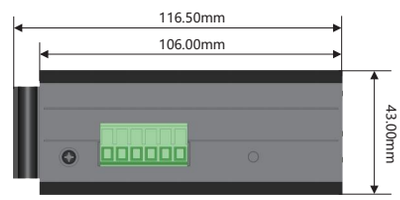


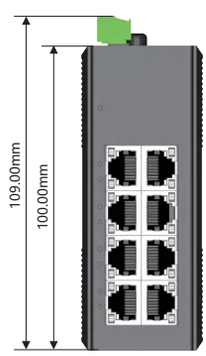


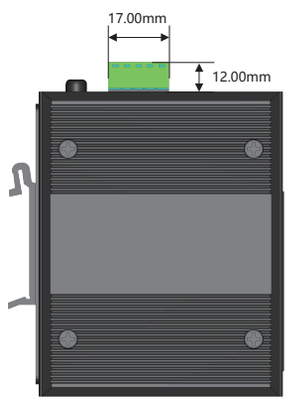


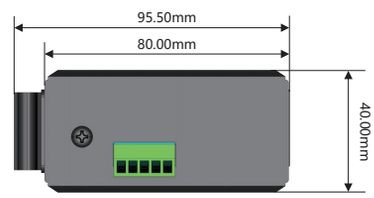










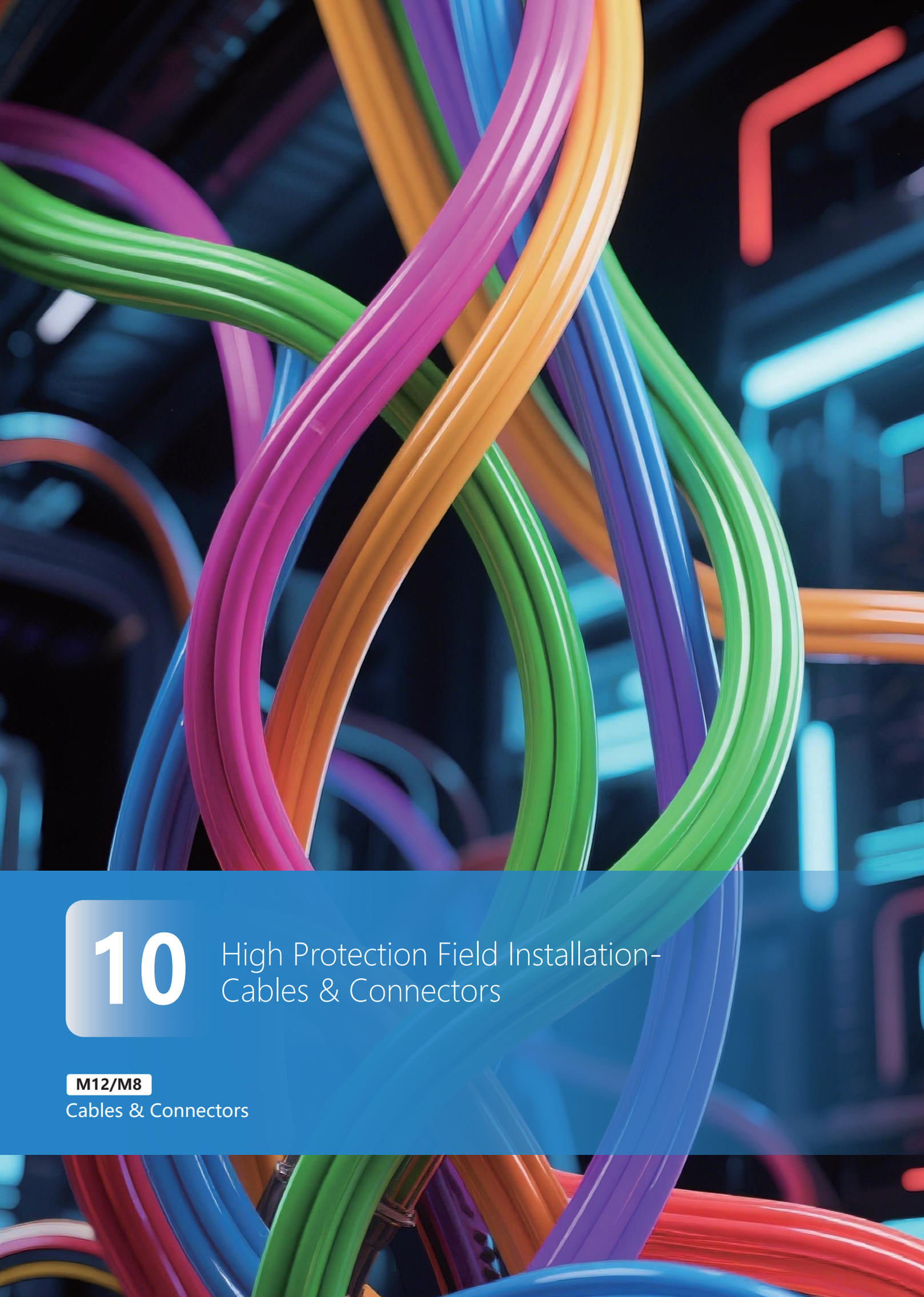


Specification Parameters

Model	IES-1050-S	IES-1050GE
Appearance		
Electrical interface	5xRJ45(With shielding)	
Optical interface	-	
Power interface	3Pin plug-in string terminal	
Nominal current	150mA 12V full loaded	
Electrical channel	5	5
Communication rate	10/100Mbps, self-adaptive	10/100Mbps, self-adaptive
Packet forwarding rate	0.744Mpps	7.44Mpps
Backplane bandwidth	1Gbps	10Gbps
Wiring type	Adaptive for parallel lines / intersecting lines	

Model	IES-1080-S	IES-1080GE
Appearance		
Electrical interface	8xRJ45(With shielding)	
Optical interface	-	
Power interface	6Pin plug-in string terminal	
Nominal current	350mA 12V full loaded	
Electrical channel	8	8
Communication rate	10/100Mbps, self-adaptive	10/100Mbps, self-adaptive
Packet forwarding rate	1.19Mpps	11.9Mpps
Backplane bandwidth	3.8Gbps，Non-blocking design	16Gbps，Non-blocking design
Wiring type	Adaptive for parallel lines / intersecting lines	

Model	IES-1080S-mini	IES-1080GE-mini
Appearance		
Electrical interface	8xRJ45(With shielding)	
Optical interface	-	
Power interface	5Pin plug-in string terminal	
Nominal current	350mA 12V full loaded	
Electrical channel	8	8
Communication rate	10/100Mbps,self-adaptive	10/100/1000Mbps,self-adaptive
Packet forwarding rate	1.19Mpps	11.9Mpps
Backplane bandwidth	3.8Gbps，Non-blocking design	20Gbps，Non-blocking design
Wiring type	Adaptive for parallel lines / intersecting lines	



10 High Protection Field Installation-Cables & Connectors

M12/M8
Cables & Connectors

Cable Material

PVC-In normal application environment

Application:

The wire can provide moderate mechanical strength and can move freely without tensile stress. It is suitable for packaging machinery and assembly production lines. It has certain resistance to wear and tear as well as resistance to external force damage, but it is not suitable for use in drag chains.

Function:

The outer sheath is prone to peeling off
Chemical resistance
Not resistant to oil and fat
Some wear resistance

PUR-In harsh application conditions

Application:

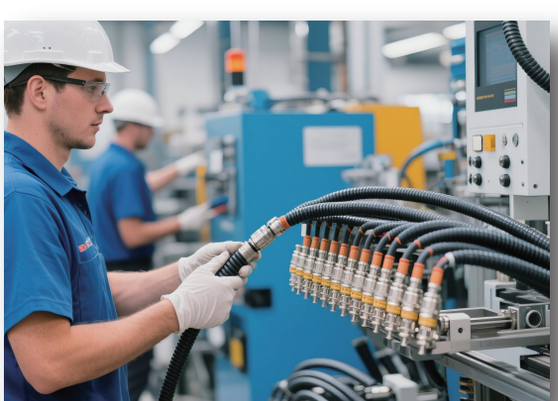
Flexible control cables are suitable for drag chain workbenches, machine tools, and the metal cutting manufacturing industry. On the premise of correct installation, they are highly suitable for drag chains.

Function:

Suitable for cable ties, free of PVC and halogens
Excellent oil resistance, anti-antifreeze properties,
chemical resistance and wear resistance.
Flame retardant grade: Compliant with VDE 0472 regulations
Capable of withstanding strong mechanical impacts
Resistant to hydrolysis and ultraviolet rays

Drainage hose parameters:

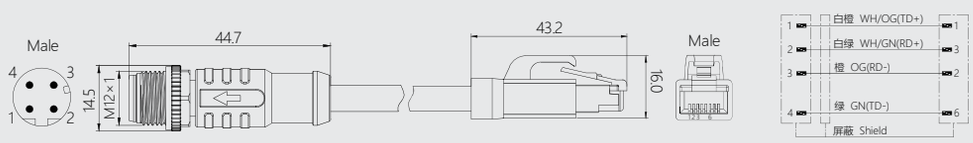
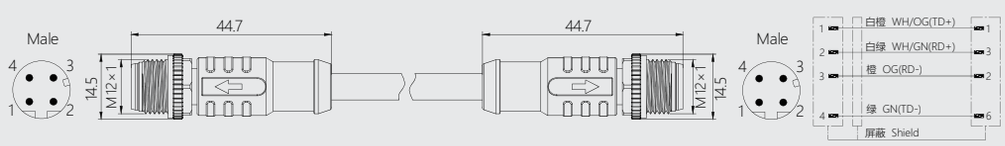
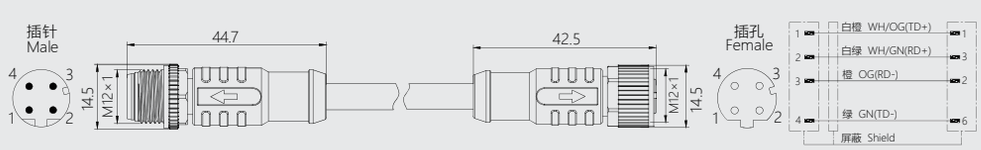
Bending radius: 10 times the cable diameter
Move distance: 3.3m/s at a lateral movement of 5 meters and an acceleration of 5m/s^2
flexible life: ≥ 500万 (10 Mio.)



Specification Parameters

Network Cable(PVC)

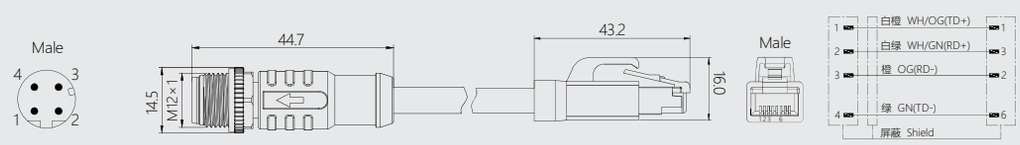
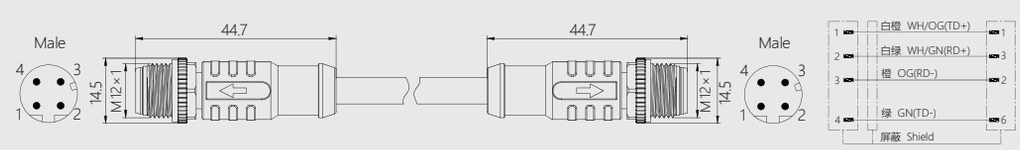
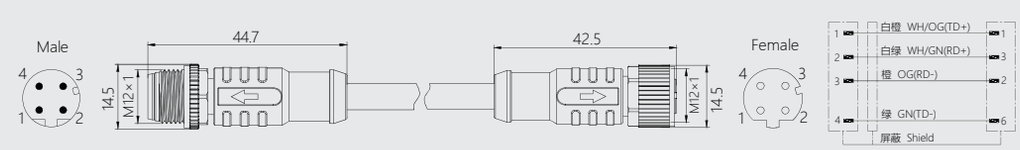
Model instruction: □□=Length(m), model sample: **M12D-MS-4P-RJ45-3-PVC**
Material instruction: PVC cables are suitable for fixed installation.

Model	M12D-MS-4P-RJ45-□□-PVC	M12D-MS-4P-M12D-MS-4P-□□-PVC	M12D-MS-4P-M12D-FS-4P-□□-PVC
Appearance			
Description	M12-RJ45, D-Code	M12-M12, male-male, D-Code	M12-M12, male-female, D-Code
Cable color	Green		
Poles	4-Pole		
Nominal voltage	30V DC		
Nominal current	1.5A		
Shell material	TPU/Black		
Lock nut	Alloy copper / Nickel plating		
Nail holder material	TPU+GF/Black		
Contact material	nickel plated brass		
Sealing ring material	FPM/FKM		
Protection class	IP67(After inserting and tightening it)		
insulation resistance	≥100MΩ		
contact resistance	≤5MΩ		
Pollution class	3		
Operating temperature	-25℃...+80℃		
torque	0.6Nm		
connect-disconnect life	≥100		
Overall size	①	②	③
circuit diagram	①	②	③
Stitch sequencing	①	②	③
Function	Network communication	Network communication	Network communication
①			
②			
③			

Specification Parameters

Network Cable(PUR)

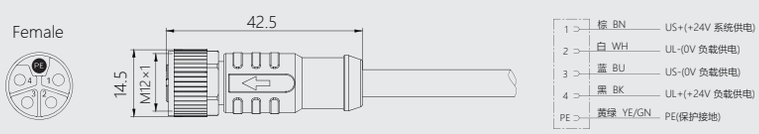
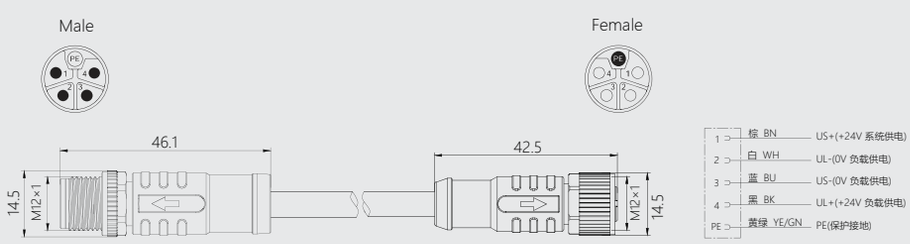
Model instruction: □□=Length(m), model sample: **M12D-MS-4P-RJ45-3-PUR**
Material instruction: PUR cables are suitable for use in drag chain applications, with a bending life of ≥ 5 million cycles.

Model	M12D-MS-4P-RJ45-□□-PUR	M12D-MS-4P-M12D-MS-4P-□□-PUR	M12D-MS-4P-M12D-FS-4P-□□-PUR
Appearance			
Description	M12-RJ45, D-Code	M12-M12, male-male, D-Code	M12-M12, male-female, D-Code
Cable color	Green		
Poles	4-Pole		
Nominal voltage	30V DC		
Nominal current	1.5A		
Shell material	TPU/Black		
Lock nut	Alloy copper / Nickel plating		
Nail holder material	TPU+GF/Black		
Contact material	Nickel plated brass		
Sealing ring material	FPM/FKM		
Protection class	IP67(After inserting and tightening it)		
insulation resistance	≥100MΩ		
contact resistance	≤5MΩ		
Pollution class	3		
Operating temperature	-25℃...+80℃		
torque	0.6Nm		
connect-disconnect life	≥100		
Overall size	①	②	③
circuit diagram	①	②	③
Stitch sequencing	①	②	③
Function	Network communication wiring	Network communication wiring	Network communication wiring
①			
②			
③			

Specification Parameters

Power Cable(PVC)

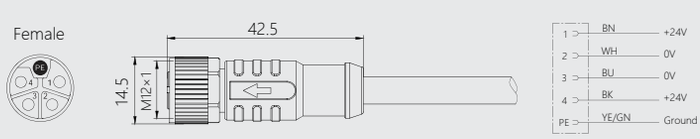
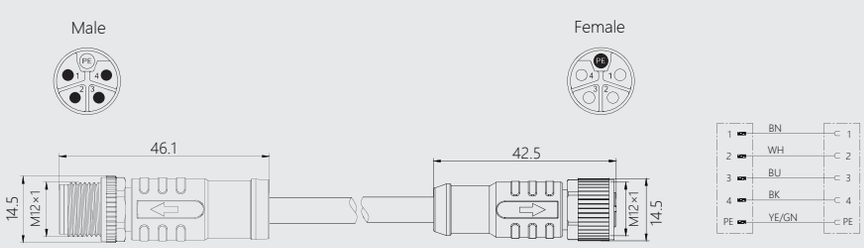
Model instruction: □□=Length(m), model sample: **M12L-MS-5P-3-PVC**
Material instruction: PVC cables are suitable for fixed installation.

Model	**M12L-FS-5P-□□-PVC**	**M12L-MS-5P-M12L-FS-5P-□□-PVC**
Appearance		
Description	M12-cable, female-5-wire cable, L-Code	M12-M12, male-female, L-Code
Cable color	Yellow	
Poles	5-Pole	
Nominal voltage	63V DC	
Nominal current	12A	
Shell material	TPU/Black	
Lock nut	Alloy copper / Nickel plating	
Nail holder material	TPU+GF/Black	
Contact material	nickel plated brass	
Sealing ring material	FPM/FKM	
Protection class	IP67(After inserting and tightening it)	
insulation resistance	1.5mm²	
contact resistance	≤5MΩ	
Pollution class	3	
Operating temperature	-25℃...+80℃	
torque	0.6Nm	
connect-disconnect life	≥100	
Overall size	①	②
circuit diagram	①	②
Stitch sequencing	①	②
Function	Power Input wiring	Power output-Power input wiring
①		
②		

Specification Parameters

Power Cable(PUR)

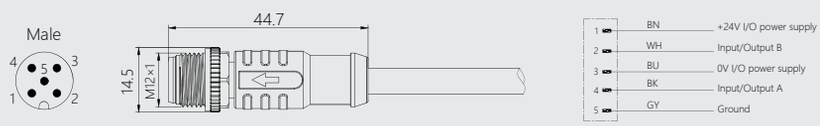
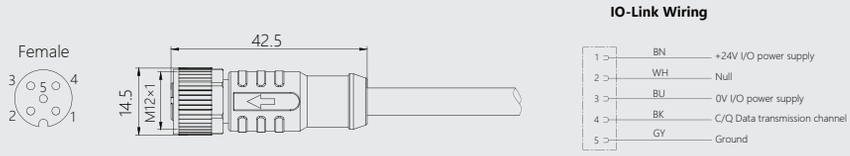
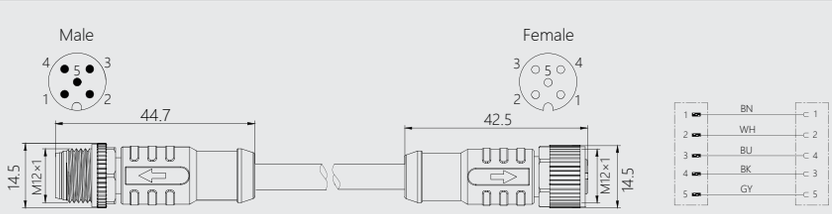
Model instruction: □□=Length(m), model sample: **M12L-MS-5P-3.5-PUR**
Material instruction: PUR cables are suitable for use in drag chain applications, with a bending life of ≥ 5 million cycles.

Model	**M12L-FS-5P-□□-PUR**	**M12L-MS-5P-M12L-FS-5P-□□-PUR**
Appearance		
Description	M12-Cable, female-5-wire cable, L-Code	M12-M12, male-female, L-Code
Cable color	Black	
Poles	5-Pole	
Nominal voltage	63V DC	
Nominal current	12A	
Shell material	TPU/Black	
Lock nut	Alloy copper / Nickel plating	
Nail holder material	TPU+GF/Black	
Contact material	Nickel plated brass	
Sealing ring material	FPM/FKM	
Protection class	IP67(After inserting and tightening it)	
insulation resistance	1.5mm²	
contact resistance	≤5MΩ	
Pollution class	3	
Operating temperature	-25℃...+80℃	
torque	0.6Nm	
connect-disconnect life	≥100	
Overall size	①	②
circuit diagram	①	②
Stitch sequencing	①	②
Function	Power Input wiring	Power output-Power input wiring
①		
②		

Specification Parameters

Sensor Cable(PVC)

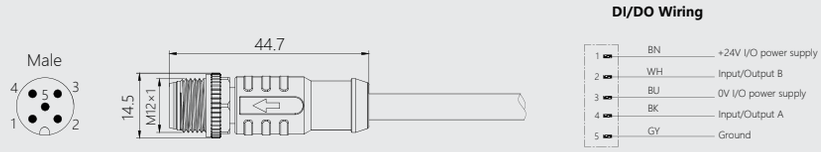
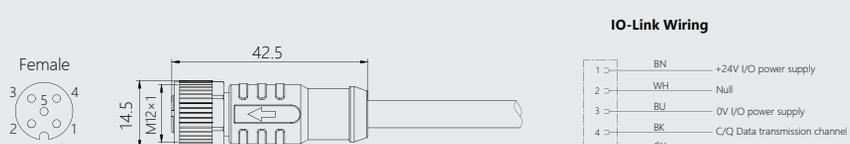
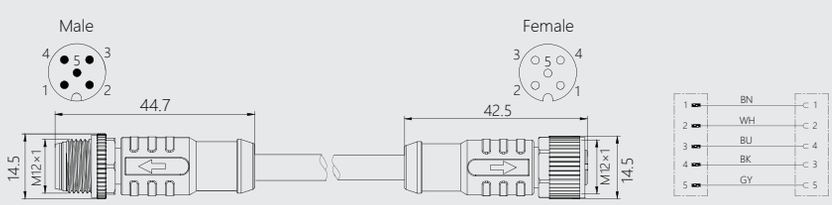
Model instruction: □□=Length(m), model sample: **M12A-MS-5P-3.5-PVC**
Material instruction: PVC cables are suitable for fixed installation.

Model	**M12A-MS-5P-□□-PVC**	**M12A-FS-5P-□□-PVC**	**M12A-MS-5P-M12A-FS-5P-□□-PVC**
Appearance			
Description	M12-Cable, male-5 wrie, A-Code	M12-Cable, female-5-wrie, A-Code	M12-M12, male-female, A-Code
Cable color	Gray		
Poles	5-Pole		
Nominal voltage	125V DC		
Nominal current	4A		
Shell material	TPU/Black		
Lock nut	Alloy copper / Nickel plating		
Nail holder material	TPU+GF/Black		
Contact material	Nickel plated brass		
Sealing ring material	FPM/FKM		
Protection class	IP67(After inserting and tightening it)		
insulation resistance	1.5mm²		
contact resistance	≤5MΩ		
Pollution class	3		
Operating temperature	-25℃...+80℃		
torque	0.6Nm		
connect-disconnect life	≥100		
Overall size	①	②	③
circuit diagram	①	②	③
Stitch sequencing	①	②	③
Function	Sensor wiring or IO-Link wiring	Sensor wiring or IO-Link wiring	Sensor wiring or IO-Link wiring
①			
②			
③			

Specification Parameters

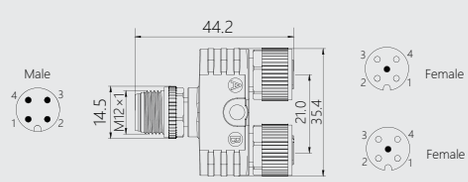
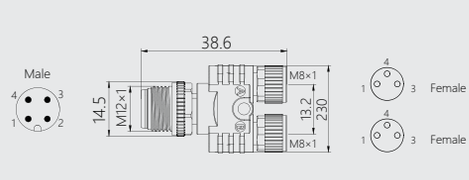
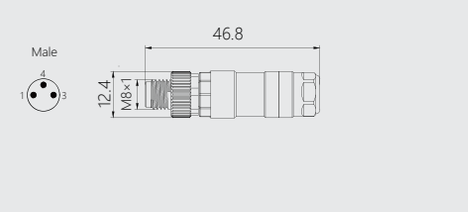
Sensor Cable(PUR)

Model instruction: □□=Length(m), model sample: **M12A-MS-5P-3.5-PUR**
Material instruction: PUR cables are suitable for use in drag chain applications, with a bending life of ≥ 5 million cycles.

Model	M12A-MS-5P-□□-PUR	M12A-FS-5P-□□-PUR	M12A-MS-5P-M12A-FS-5P-□□-PUR
Appearance			
Description	M12-Cable, male-5wire, A-Code	M12-Cable, female-5 wire, A-Code	M12-M12, male-female, A-Code
Cable color	Black		
Poles	5-Pole		
Nominal voltage	125V DC		
Nominal current	4A		
Shell material	PU/Black		
Lock nut	Alloy copper / Nickel plating		
Nail holder material	TPU+GF/Black		
Contact material	Nickel plated brass		
Sealing ring material	FPM/FKM		
Protection class	IP67(After inserting and tightening it)		
insulation resistance	1.5mm²		
contact resistance	≤5MΩ		
Pollution class	3		
Operating temperature	-25℃...+80℃		
torque	0.6Nm		
connect-disconnect life	≥100		
Overall size	①	②	③
circuit diagram	①	②	③
Stitch sequencing	①	②	③
Function	Sensor or IO-Link wiring	Sensor or IO-Link wiring	Sensor or IO-Link wiring
①			
②			
③			

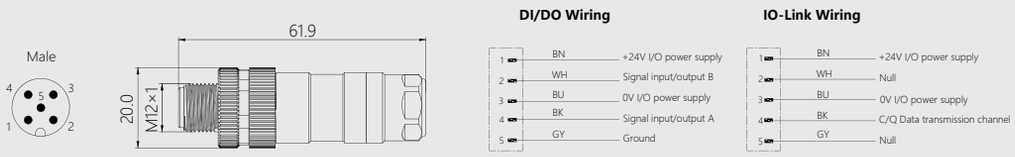
Specification Parameters

Y Connector & M8 connector

Model	Y-M12-M4-2F3	Y-M12-M8-M4-2F3	M8-MS-3P
Appearance			
Description	Y type，M12 to 2xM12，A-Code	Y type，M12 to 2xM8，A-Code	M8 connector，male，3Pin
Nominal voltage	250V DC	60V DC	60V DC
Nominal current	4A	2A	4A
Shell material	TPU/Black		
Lock nut	Alloy copper / Nickel plating		
Nail holder material	TPU+GF/Black		
Contact material	Nickel plated brass		
Sealing ring material	FPM/FKM		
Protection class	IP67(After inserting and tightening it)		
insulation resistance	1.5mm²		
contact resistance	≤5MΩ		
Pollution class	3		
Operating temperature	-25℃...+80℃		
torque	0.6Nm	0.4Nm	0.4Nm
connect-disconnect life	≥100	≥100	≥100
Overall size	①	②	③
circuit diagram	①	②	③
Stitch sequencing	①	②	③
Function	Sensor wiring	Sensor wiring	Sensor wiring
①			
②			
③			

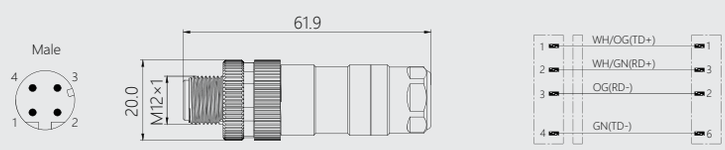
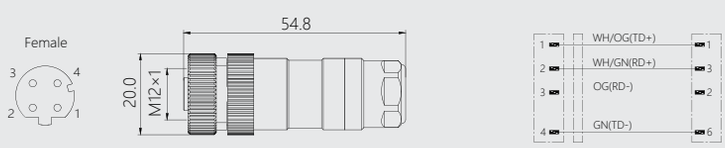
Specification Parameters

Sensor connector & IO-Link connector

Model	M12A-MS-5P-PG7	M12A-FS-5P-PG7
Appearance		
Description	M12，male，screwing，A-Code	M12，female，screwing，A-Code
Poles	5-Poles	
Nominal voltage	125V DC	
Nominal current	4A	
Shell material	TPU/Black	
Lock nut	Alloy copper / Nickel plating	
Nail holder material	TPU+GF/Black	
Contact material	Nickel plated brass	
Sealing ring material	FPM/FKM	
Protection class	IP67(After inserting and tightening it)	
cross-sectional area	0.14...0.5mm²	
Cable diameter	φ4.0...8.0mm	
Pollution class	3	
Operating temperature	-40℃...+85℃	
torque	0.6Nm	
connect-disconnect life	≥100	
Overall size	①	②
circuit diagram	①	②
Stitch sequencing	①	②
Function	Sensor wiring or IO-Link wiring	Sensor wiring or IO-Link wiring
①		
②		

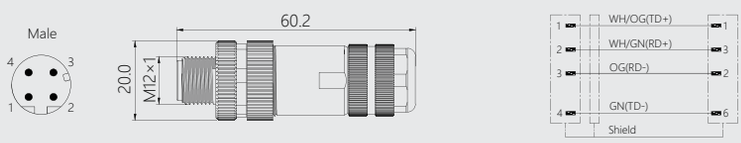
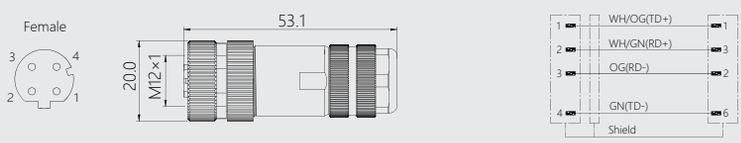
Specification Parameters

Network Connector

Model	**M12D-MS-4P-PG7**	**M12D-FS-4P-PG7**
Appearance		
Description	M12，male，screwing，D-Code	M12，female，screwing，D-Code
Poles	4-Pole	
Nominal voltage	250V DC	
Nominal current	4A	
Shell material	TPU/Black	
Lock nut	Alloy copper / Nickel plating	
Nail holder material	TPU+GF/Black	
Contact material	Nickel plated brass	
Sealing ring material	FPM/FKM	
Protection class	IP67(After inserting and tightening it)	
cross-sectional area	0.14...0.5mm²	
Cable diameter	φ4.0...8.0mm	
Pollution class	3	
Operating temperature	-40℃...+85℃	
torque	0.6Nm	
connect-disconnect life	≥100	
Overall size	①	②
circuit diagram	①	②
Stitch sequencing	①	②
Function	Power input wiring	Power output wiring
①		
②		

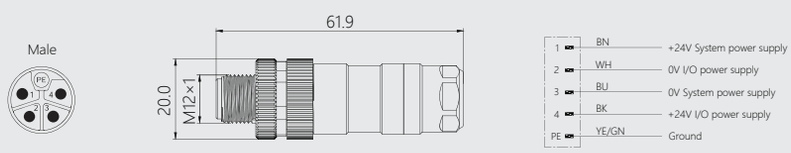
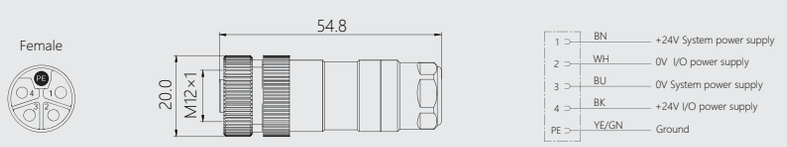
Specification Parameters

Network Connector

Model	M12D-MS-4P-PG9	M12D-FS-4P-PG9
Appearance		
Description	M12，male，screwing，D-Code，mental	M12，female，screwing，D-Code，mental
Poles	4-Pole	
Nominal voltage	250V DC	
Nominal current	4A	
Shell material	TPU/Black	
Lock nut	Alloy copper / Nickel plating	
Nail holder material	TPU+GF/Black	
Contact material	Nickel plated brass	
Sealing ring material	FPM/FKM	
Protection class	IP67(After inserting and tightening it)	
cross-sectional area	0.14...0.5mm²	
Cable diameter	φ4.0...8.0mm	
Pollution class	3	
Operating temperature	-40℃...+85℃	
torque	0.6Nm	
connect-disconnect life	≥100	
Overall size	①	②
circuit diagram	①	②
Stitch sequencing	①	②
Function	Network communication wiring	Network communication wiring
①		
②		

Specification Parameters

Power connector

Model	M12L-MS-5P-PG9	M12L-FS-5P-PG9
Appearance		
Description	M12，male，screwing，L-Code	M12，female，screwing，L-Code
Poles	5-Pole	
Nominal voltage	63V DC	
Nominal current	12A	
Shell material	PA66/Black	
Lock nut	Alloy copper / Nickel plating	
Nail holder material	TPU+GF/Black	
Contact material	Nickel plated brass	
Sealing ring material	FPM/FKM	
Protection class	IP67(After inserting and tightening it)	
cross-sectional area	Max.1.5mm²	
Cable diameter	φ8.0...10.0mm	
Pollution class	3	
Operating temperature	-40℃...+85℃	
torque	0.6Nm	
connect-disconnect life	≥100	
Overall size	①	②
circuit diagram	①	②
Stitch sequencing	①	②
Function	Power Input wiring	Power output wiring
①		
②		

11 Latcos Product Family Quick Selection Table

Type	Model	Specification
Coupler Module	LUC-PNB	PROFINET RT，2xRJ45，support cascading，24VDC
	LUC-PNB12	PROFINET RT，2xM12，support cascading，24VDC
	LUC-EPB	EtherNer/IP，2xRJ45，support cascading，24VDC
	LUC-EPB12	EtherNer/IP，2xM12，support cascading，24VDC
	LUC-CEB	CC-Link IE FieldBasic，2xRJ45，support cascading，24VDC
	LUC-CEB12	CC-Link IE FieldBasic，2xM12，support cascading，24VDC
	LUC-EAB	EtherCAT，2xRJ45，support cascading，24VDC
	LUC-EAB12	EtherCAT，2xM12，support cascading，24VDC
	LUC-MTB	Modbus TCP，2xRJ45，support cascading，24VDC
	LUC-MTB12	Modbus TCP，2xM12，support cascading，24VDC
Digital Module	ES-1160D	DI*16，PNP&NPN，24VDC
	ES-1320D	DI*32，PNP&NPN，24VDC
	ES-2161D	DO*16，transistor，PNP，0.5A/CH，24VDC
	ES-2162D	DO*16，transistor，NPN，0.5A/CH，24VDC
	ES-2321D	DO*32，transistor，PNP，0.5A/CH，24VDC
	ES-2322D	DO*32，transistor，NPN，0.5A/CH，24VDC
	ES-2041D	DO*4，transistor，PNP，2A/CH，24VDC
	ES-2042D	DO*4，transistor，NPN，2A/CH，24VDC
	ES-2083D	DO*8，relay，5A/CH，250VAC/30VDC
	ES-2163D	DO*16，relay，5A/CH，250VAC/30VDC
Analog Module	ES-3081A	AI*8，current mode，16bit，0~20mA/4~20mA，24VDC
	ES-3082A	AI*8，voltage mode，16bit，0~10V/±10V，24VDC
	ES-3043A	AI*4，current & voltage mode，16bit，0~20mA/4~20mA/0~10V/±10V，24VDC
	ES-4081A	AO*8，current mode，16bit，4~20mA，24VDC
	ES-4082A	AO*8，voltage mode，16bit，0~10V，24VDC
	ES-4043A	AO*4，current & voltage mode，16bit，4~20mA/0~10V，24VDC
Temperature Module	ES-3087A	RTD*8，PT100，Cu50，16bit，±0.5℃(full scale)，3 wire/2 wire，24VDC
	ES-3047A	RTD*4，PT100，Cu50，16bit，±0.5℃(full scale)，3 wire/2 wire，24VDC
	ES-3088A	TC*8，K,S,R,B,J,N,E,T，16bit，±0.5℃(full scale)，2 wire，24VDC
	ES-3048A	TC*4，K,S,R,B,J,N,E,T，16bit，±0.5℃(full scale)，2 wire，24VDC
PWM Module	ES-04PMA	4CH，200KHZ/CH，NPN；4DI，NPN；8DO，NPN，0.5A，24VDC
	ES-04PMB	4CH，200KHZ/CH，PNP，4DI，NPN；8DO，PNP，0.5A，24VDC
Positioning	ES-04DMA	4CH，200KHZ/axis，S/T acceleration and deceleration，4 return modes，24VDC
Counting	ES-02HC	2CH，Incremental single pulse，AB，ABZ，32bit，200KHZ/CH，24VDC
Modbus	ES-02MB-485	2*RS485，MODBUS RTU master and free protocol，24VDC
	ES-02MB-422	2*RS422，MODBUS RTU master and free protocol，24VDC
	ES-02MB-232	2*RS232，MODBUS RTU master and free protocol，24VDC
IO-Link	ES-04IOL	4xClassA，IO-Link master，IO-Link V1.1，24VDC
Weighing	ES-3026A	2CH，Weight calibration，24bit，4 wire/6 wire，5VDC
	ES-3026B	2CH，Weight calibration/Un-calibrated mode，24bit，4 wire/6 wire，5VDC/10VDC
Terminal port	ES-1000	2CH，2xRJ45，24VDC
Terminal Block	TM-1160D	1xRJ45，DI*16，PNP&NPN，24VDC，e-CON connector
	TM-2161D	1xRJ45，DO*16，transistor，PNP，0.5A/CH，24VDC，e-CON connector
	TM-2162D	1xRJ45，DO*16，transistor，NPN，0.5A/CH，24VDC，e-CON connector

Type	Model	Specification
Main Module	R51C1-DP(-Pro)	2xDB9，extensible，PROFIBUS，16DI_PNP&NPN，12DO_PNP，0.5A/CH，24VDC
	R51C1-PN(-Pro)	2xRJ45，extensible，PROFINET，16DI_PNP&NPN，12DO_PNP，0.5A/CH，24VDC
	R51C2-PN(-Pro)	2xRJ45，extensible，PROFINET，16DI_PNP&NPN，12DO_NPN，0.5A/CH，24VDC
	R51C1-EA(-Pro)	2xRJ45，extensible，EtherCAT，16DI_PNP&NPN，12DO_PNP，0.5A/CH，24VDC
	R5202-EA(-Pro)	2xRJ45，extensible，EtherCAT，16DI_PNP&NPN，16DO_NPN，0.5A/CH，24VDC
	R51C1-EP(-Pro)	2xRJ45，extensible，EtherNet/IP，16DI_PNP&NPN，12DO_PNP，0.5A/CH，24VDC
	R51C2-EP(-Pro)	2xRJ45，extensible，EtherNet/IP，16DI_PNP&NPN，12DO_NPN，0.5A/CH，24VDC
	R51C1-CN	2x5P terminal，inextensible，CANopen，16DI_PNP&NPN，12DO_PNP，0.5A/CH，24VDC
	R51C1-DN	2x5P terminal，inextensible，DeviceNet，16DI_PNP&NPN，12DO_PNP，0.5A/CH，24VDC
Extended module	E10C1	12DI，PNP&NPN，24VDC
	E20C1	12DO，PNP，0.5A/CH，24VDC
	E20C2	12DO，NPN，0.5A/CH，24VDC
	E3041	4AI，current & voltage mode，12bit，0~20mA/4~20mA/0~10V，24VDC
	E4041	4AO，current & voltage mode，12bit，4~20mA/0~10V，24VDC
	E8041	4RTD，PT100，Cu50，12bit，±1℃，3 wire/2 wire，24VDC
	E8042	4TC，K,S,R,B,J,N,E,T，12bit，2 wire，24VDC

IO-Link Field Distributed I/O Module 03

Type	Model	Specification
IO-Link master IP67	PN-08IOL	PROFINET RT to 8xIO-Link master，Class A，24VDC，IP67
	EP-08IOL	EtherNet/IP to 8xIO-Link master，Class A，24VDC，IP67
	CE-08IOL	CC-Link IE FB to 8xIO-Link master，Class A，24VDC，IP67
	EA-08IOL	EtherCAT to 8xIO-Link master，Class A，24VD，IP67
IO-Link HUB IP67	IOL-1600P-HUB	IO-Link HUB，Class A，16DI_PNP，24VDC，IP67
	IOL-1600N-HUB	IO-Link HUB，Class A，16DI_NPN，24VDC，IP67
	IOL-0016P-HUB	IO-Link HUB，Class A，16DO_PNP，0.5A/CH，24VDC，IP67
	IOL-0016N-HUB	IO-Link HUB，Class A，16DO_NPN，0.5A/CH，24VDC，IP67
	IOL-0808P-HUB	IO-Link HUB，Class A，8DI_PNP，8DO_PNP，0.5A/CH，24VDC，IP67
	IOL-0808N-HUB	IO-Link HUB，Class A，8DI_NPN，8DO_NPN，0.5A/CH，24VDC，IP67
IO-Link HUB IP20	IOL20-0800P-HUB	IO-Link HUB，Class A，8DI_PNP，24VDC，IP20
	IOL20-0800N-HUB	IO-Link HUB，Class A，8DI_NPN，24VDC，IP20
	IOL20-0008P-HUB	IO-Link HUB，Class A，8DO_PNP，0.5A/CH，24VDC，IP20
	IOL20-0008N-HUB	IO-Link HUB，Class A，8DO_NPN，0.5A/CH，24VDC，IP20
	IOL20-0404P-HUB	IO-Link HUB，Class A，4DI_PNP，4DO_PNP，0.5A/CH，24VDC，IP20
	IOL20-0404N-HUB	IO-Link HUB，Class A，4DI_NPN，4DO_NPN，0.5A/CH，24VDC，IP20
	IOL20-1600P-HUB	IO-Link HUB，Class A，16DI_PNP，24VDC，IP20
	IOL20-1600N-HUB	IO-Link HUB，Class A，16DI_NPN，24VDC，IP20
	IOL20-0016P-HUB	IO-Link HUB，Class A，16DO_PNP，0.5A/CH，24VDC，IP20
	IOL20-0016N-HUB	IO-Link HUB，Class A，16DO_NPN，0.5A/CH，24VDC，IP20
	IOL20-0808P-HUB	IO-Link HUB，Class A，8DI_PNP，8DO_PNP，0.5A/CHA，24VDC，IP20
	IOL20-0808N-HUB	IO-Link HUB，Class A，8DI_NPN，8DO_NPN，0.5A/CH，24VDC，IP20

Type	Model	Specification	**suffix
Digital Module	SRX-D0808P-**	8DI_PNP；8DO_PNP，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D0808N-**	8DI_NPN；8DO_NPN，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D1616P-**	16DI_PNP&NPN；16DO_PNP，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D1616N-**	16DI_PNP&NPN；16DO_NPN，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D2408P-**	16DI_PNP&NPN，8DI_PNP；8DO_PNP，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D2408N-**	16DI_PNP&NPN，8DI_NPN；8DO_NPN，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D0824P-**	8DI_PNP；24DO_PNP，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D0824N-**	8DI_NPN；24DO_NPN，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D1600-**	16DI_PNP&NPN，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D3200-**	32DI_PNP&NPN，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D0016P-**	16DO_PNP，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D0016N-**	16DO_NPN，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D0032P-**	32DO_PNP，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-D0032N-**	32DO_NPN，0.5A/CH，24VDC	PN/EP/CE/EA/MT/RTU
Analog Module	SRX-A0600-**	6AI_0~20mA/4~20mA/0~10V/±10V，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-A1200-**	12AI_0~20mA/4~20mA/0~10V/±10V，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-A0004-**	4AO_4~20mA/0~10V，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-A0008-**	8AO_4~20mA/0~10V，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-A0604-**	6AI&4AO，U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
Temperature Module	SRX-08RTD-**	8RTD，PT100，Cu50，16bit，±0.5℃，24VDC，3 wire/2 wire	PN/EP/CE/EA/MT/RTU
	SRX-16RTD-**	16RTD，PT100，Cu50，16bit，±0.5℃，24VDC，3 wire/2 wire	PN/EP/CE/EA/MT/RTU
	SRX-08TC-**	8TC，K,S,R,B,J,N,E,T，16bit，±0.5℃，24VDC，2 wire	PN/EP/CE/EA/MT/RTU
	SRX-16TC-**	16TC，K,S,R,B,J,N,E,T，16bit，±0.5℃，24VDC，2 wire	PN/EP/CE/EA/MT/RTU
	SRX-8RTD-8TC-**	8RTD，3 wire/2 wire；8TC，2 wire，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
Mixing Module	SRX-M8860P-**	8DI8DO_PNP，0.5A/CH；6AI_U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-M8860N-**	8DI8DO_NPN，0.5A/CH；6AI_U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-M8804P-**	8DI8DO_PNP，0.5A/CH；4AO_U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-M8804N-**	8DI8DO_NPN，0.5A/CH；4AO_U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-MF060-**	16DI_PNP&NPN；6AI，U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-MF004-**	16DI_PNP&NP；4AO，U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-M0F60P-**	16DO_PNP，0.5A/CH；6AI_U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-M0F60N-**	16DO_NPN，0.5A/CH；6AI_U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-M0F04P-**	16DO_PNP，0.5A/CH；4AO_U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-M0F04N-**	16DO_NPN，0.5A/CH；4AO_U/I，16bit，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-88DP-8RTD-**	8DI8DO_PNP，0.5A/CH；8RT，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-88DN-8RTD-**	8DI8DO_NPN，0.5A/CH；8RTD，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-88DP-8TC-**	8DI8DO_PNP, 0.5A/CH；8TC，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-88DN-8TC-**	8DI8DO_NPN, 0.5A/CH；8TC，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-16DI-8RTD-**	16DI_PNP&NPN；8RTD，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-16DI-8TC-**	16DI_PNP&NPN；8TC，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-16DOP-8RTD-**	16DO_PNP, 0.5A；8RTD，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-16DON-8RTD-**	16DO_NPN，0.5A；8RTD，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-16DOP-8TC-**	16DO_PNP,；0.5A，8TC，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-16DON-8TC-**	16DO_NPN；0.5A，8TC，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-6AI-8RTD-**	6AI_U/I；8RTD，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-4AO-8RTD-**	4AO_U/I；8RTD，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-6AI-8TC-**	6AI_U/I；8TC，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU
	SRX-4AO-8TC-**	4AO_U/I，16bit；8TC，16bit，±0.5℃，24VDC	PN/EP/CE/EA/MT/RTU

Suffix Explanation：PN-**PROFINET**；EP-**EtherNet/IP**；CE-**CC-Link IE Fieldbasic**；EA-**EtherCAT**；MT-**Modbus TCP**；RTU-**Modbus RTU**

Type	Model	Specification
PROFINET	MR□1600P-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，16DI_PNP，24VDC
	MR□1600N-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，16DI_NPN，24VDC
	MR□3200P-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，32DI_PNP，24VDC
	MR□3200N-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，32DI_NPN，24VDC
	MR□0016P-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，16DO_PNP，0.5A，24VDC
	MR□0016N-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，16DO_NPN，0.5A，24VDC
	MR□0032P-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，32DO_PNP，0.5A，24VDC
	MR□0032N-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，32DO_NPN，0.5A，24VDC
	MR□0808P-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，8DI_PNP；8DO_PNP，0.5A,24VDC
	MR□0808N-PN	2XRJ45 or 2XM12，Support cascading，PROFINET RT，8DI_NPN；8DO_NPN，0.5A,24VDC
	MR□1616P-PN	2XRJ45 or 2XM12，Support cascading,PROFINET RT，16DI_PNP；16DO_PNP,0.5A，24VDC
	MR□616N-PN	S2XRJ45 or 2XM12，Support cascading,PROFINET RT,16DI_NPN；16DO_NPN,0.5A，24VDC
EtherNet/IP	MR□1600P-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，16DI_PNP，24VDC
	MR□1600N-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，16DI_NPN，24VDC
	MR□3200P-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，32DI_PNP，24VDC
	MR□3200N-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，32DI_NPN，24VDC
	MR□0016P-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，16DO_PN，0.5A，24VDC
	MR□0016N-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，16DO_NPN，0.5A，24VDC
	MR□0032P-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，32DO_PNP，0.5A，24VDC
	MR□0032N-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，32DO_NPN，0.5A，24VDC
	MR□0808P-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，8DI_PNP；8DO_PNP，0.5A，24VDC
	MR□0808N-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，8DI_NPN；8DO_NPN，0.5A，24VDC
	MR□1616P-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，16DI_PNP；16DO_PNP，0.5A,24VDC
	MR□1616N-EP	2XRJ45 or 2XM12，Support cascading，EtherNet/IP，16DI_NPN；16DO_NPN，0.5A,24VDC
CC-Link IE FieldBasic	MR□1600P-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，16DI_PNP，24VDC
	MR□1600N-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，16DI_NPN，24VDC
	MR□3200P-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，32DI_PNP，24VDC
	MR□3200N-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，32DI_NPN，24VDC
	MR□0016P-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，16DO_PNP，0.5A，24VDC
	MR□0016N-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，16DO_NPN，0.5A，24VDC
	MR□0032P-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，32DO_PNP，0.5A，24VDC
	MR□0032N-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，32DO_NPN，0.5A，24VDC
	MR□0808P-CE	2XRJ45 or 2XM12，Support cascading,CC-Link IE FB，8DI_PNP；8DO_PNP，0.5A，24VDC
	MR□0808N-CE	2XRJ45 or 2XM12，Support cascading，CC-Link IE FB，8DI_NPN；8DO_NPN，0.5A,24VDC
	MR□1616P-CE	2XRJ45 or 2XM12，Support cascading,CC-Link IE FB，16DI_PNP；16DO_PNP，0.5A,24VDC
	MR□1616N-CE	2XRJ45 or 2XM12，Support cascading,CC-Link IE FB，16DI_NPN；16DO_NPN，0.5A,24VDC
EtherCAT	MR□1600P-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，16DI_PNP，24VDC
	MR□1600N-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，16DI_NPN，24VDC
	MR□3200P-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，32DI_PNP，24VDC
	MR□3200N-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，32DI_NPN，24VDC
	MR□0016P-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，16DO_PNP，0.5A，24VDC
	MR□0016N-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，16DO_NPN，0.5A，24VDC
	MR□0032P-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，32DO_PNP，0.5A，24VDC
	MR□0032N-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，32DO_NPN，0.5A，24VDC
	MR□0808P-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，8DI_PNP；8DO_PNP，0.5A，24VDC
	MR□0808N-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，8DI_NPN；8DO_NPN，0.5A，24VDC
	MR□1616P-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，16DI_PNP；16DO_PNP，0.5A，24VDC
	MR□1616N-EA	2XRJ45 or 2XM12，Support cascading，EtherCAT，16DI_NPN；16DO_NPN，0.5A，24VDC

1： **MR**=RJ45，e-CON；**MRS**=RJ45，Plug-in string terminal ；**MRM**=M12，e-CON；**MRMS**=M12，Plug-in string terminal

2： Please note the installation method when placing the order：**①DIN35 rail ②fixed installation**

3： when purchasing protection box, it is also necessary to note the installation method：**①DIN35 rail ②fixed installation**

Type	Model	Specification
PROFINET	JP-D1600-PN	2XRJ45，Support cascading，PROFINET RT，16DI_PNP&NPN，24VDC
	JP-D3200-PN	2XRJ45，Support cascading，PROFINET RT，32DI_PNP&NPN，24VDC
	JP-D0016P-PN	2XRJ45，Support cascading，PROFINET RT，16DO_PNP，0.5A，24VDC
	JP-D0016N-PN	2XRJ45，Support cascading，PROFINET RT，16DO_NPN，0.5A，24VDC
	JP-D0032P-PN	2XRJ45，Support cascading，PROFINET RT，32DO_PNP，0.5A，24VDC
	JP-D0032N-PN	2XRJ45，Support cascading，PROFINET RT，32DO_NPN，0.5A，24VDC
	JP-D0808P-PN	2XRJ45，Support cascading，PROFINET RT，8DI_PNP，8DO_PNP，0.5A，24VDC
	JP-D0808N-PN	2XRJ45，Support cascading，PROFINET RT，8DI_NPN，8DO_NPN，0.5A，24VDC
	JP-D1616P-PN	2XRJ45，Support cascading，PROFINET RT，16DI_PNP&NPN，16DO_PNP，0.5A，24VDC
	JP-D1616N-PN	2XRJ45，Support cascading，PROFINET RT，16DI_PNP&NPN，16DO_NPN，0.5A，24VDC
	JP-D0008R-PN	2XRJ45，Support cascading，PROFINET RT，8DO，relay，5A，250VAC/30VDC
	JP-D0016R-PN	2XRJ45，Support cascading，PROFINET RT，16DO，relay，5A，250VAC/30VDC
EtherNet/IP	JP-D1600-EP	2XRJ45，Support cascading，EtherNet/IP，16DI_C，24VDC
	JP-D3200-EP	2XRJ45，Support cascading，EtherNet/IP，32DI_PNP&NPN，24VDC
	JP-D0016P-EP	2XRJ45，Support cascading，EtherNet/IP，16DO_PNP，0.5A，24VDC
	JP-D0016N-EP	2XRJ45，Support cascading，EtherNet/IP，16DO_NPN，0.5A，24VDC
	JP-D0032P-EP	2XRJ45，Support cascading，EtherNet/IP，32DO_PNP，0.5A，24VDC
	JP-D0032N-EP	2XRJ45，Support cascading，EtherNet/IP，32DO_NPN，0.5A，24VDC
	JP-D0808P-EP	2XRJ45，Support cascading，EtherNet/IP，8DI_PNP，8DO_PNP，0.5A，24VDC
	JP-D0808N-EP	2XRJ45，Support cascading，EtherNet/IP，8DI_NPN，8DO_NPN，0.5A，24VDC
	JP-D1616P-EP	2XRJ45，Support cascading，EtherNet/IP，16DI_PNP&NPN，16DO_PNP，0.5A，24VDC
	JP-D1616N-EP	2XRJ45，Support cascading，EtherNet/IP，16DI_PNP&NPN，16DO_NPN，0.5A，24VDC
	JP-D0008R-EP	2XRJ45，Support cascading，EtherNet/IP，8DO，relay，5A，250VAC/30VDC
	JP-D0016R-EP	2XRJ45，Support cascading，EtherNet/IP，16DO，relay，5A，250VAC/30VDC
CC-Link IE FieldBasic	JP-D1600-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，16DI_C，24VDC
	JP-D3200-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，32DI_PNP&NPN，24VDC
	JP-D0016P-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，16DO_PNP，0.5A，24VDC
	JP-D0016N-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，16DO_NPN，0.5A，24VDC
	JP-D0032P-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，32DO_PNP，0.5A，24VDC
	JP-D0032N-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，32DO_NPN，0.5A，24VDC
	JP-D0808P-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，8DI_PNP，8DO_PNP，0.5A，24VDC
	JP-D0808N-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，8DI_NPN，8DO_NPN，0.5A，24VDC
	JP-D1616P-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic,16DI_PNP&NPN，16DO_PNP,0.5A，24VDC
	JP-D1616N-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic,16DI_PNP&NPN，16DO_NPN,0.5A，24VDC
	JP-D0008R-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，8DO，relay，5A，250VAC/30VDC
	JP-D0016R-CE	2XRJ45，Support cascading，CC-Link IE FieldBasic，16DO，relay，5A，250VAC/30VDC
EtherCAT	JP-D1600-EA	2XRJ45，Support cascading，EtherCAT，16DI_C，24VDC
	JP-D3200-EA	2XRJ45，Support cascading，EtherCAT，32DI_PNP&NPN，24VDC
	JP-D0016P-EA	2XRJ45，Support cascading，EtherCAT，16DO_PNP，0.5A，24VDC
	JP-D0016N-EA	2XRJ45，Support cascading，EtherCAT，16DO_NPN，0.5A，24VDC
	JP-D0032P-EA	2XRJ45，Support cascading，EtherCAT，32DO_PNP，0.5A，24VDC
	JP-D0032N-EA	2XRJ45，Support cascading，EtherCAT，32DO_NPN，0.5A，24VDC
	JP-D0808P-EA	2XRJ45，Support cascading，EtherCAT，8DI_PNP，8DO_PNP，0.5A，24VDC
	JP-D0808N-EA	2XRJ45，Support cascading，EtherCAT，8DI_NPN，8DO_NPN，0.5A，24VDC
	JP-D1616P-EA	2XRJ45，Support cascading，EtherCAT，16DI_PNP&NPN，16DO_PNP，0.5A，24VDC
	JP-D1616N-EA	2XRJ45，Support cascading，EtherCAT，16DI_PNP&NPN，16DO_NPN，0.5A，24VDC
	JP-D0008R-EA	2XRJ45，Support cascading，EtherCAT，8DO，relay，5A，250VAC/30VDC
	JP-D0016R-EA	2XRJ45，Support cascading，EtherCAT，16DO，relay，5A，250VAC/30VDC

STORM67 High Protection Field Distributed I/O Module

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Type	Model	Specification
PROFINET IP67	STM1600P-PN	2XM12，Support cascading，PROFINET RT，16DI_PNP，24VDC
	STM1600N-PN	2XM12，Support cascading，PROFINET RT，16DI_NPN，24VDC
	STM0016P-PN	2XM12，Support cascading，PROFINET RT，16DO_PNP，0.5A/CH，24VDC
	STM0016N-PN	2XM12，Support cascading，PROFINET RT，16DO_NPN，0.5A/CH，24VDC
	STM0808P-PN	2XM12，Support cascading，PROFINET RT，8DI_PNP，8DO_PNP，0.5A/CH，24VDC
	STM0808N-PN	2XM12，Support cascading，PROFINET RT，8DI_NPN，8DO_NPN，0.5A/CH，24VDC
EtherNet/IP IP67	STM1600P-EP	2XM12，Support cascading，EtherNet/IP，16DI_PNP，24VDC
	STM1600N-EP	2XM12，Support cascading，EtherNet/IP，16DI_NPN，24VDC
	STM0016P-EP	2XM12，Support cascading，EtherNet/IP，16DO_PNP，0.5A/CH，24VDC
	STM0016N-EP	2XM12，Support cascading，EtherNet/IP，16DO_NPN，0.5A/CH，24VDC
	STM0808P-EP	2XM12，Support cascading，EtherNet/IP，8DI_PNP，8DO_PNP，0.5A/CH，24VDC
	STM0808N-EP	2XM12，Support cascading，EtherNet/IP，8DI_NPN，8DO_NPN，0.5A/CH，24VDC
CC-Link IE FieldBasic	STM1600P-CE	2XM12，Support cascading，CC-Link IE FB，16DI_PNP，24VDC
	STM1600N-CE	2XM12，Support cascading，CC-Link IE FB，16DI_NPN，24VDC
	STM0016P-CE	2XM12，Support cascading，CC-Link IE FB，16DO_PNP，0.5A/CH，24VDC
	STM0016N-CE	2XM12，Support cascading，CC-Link IE FB，16DO_NPN，0.5A/CH，24VDC
	STM0808P-CE	2XM12，Support cascading，CC-Link IE FB，8DI_PNP，8DO_PNP，0.5A/CH，24VDC
	STM0808N-CE	2XM12，Support cascading，CC-Link IE FB，8DI_NPN，8DO_NPN，0.5A/CH，24VDC
EtherCAT IP67	STM1600P-EA	2XM12，Support cascading，EtherCAT，16DI_PNP，24VDC
	STM1600N-EA	2XM12，Support cascading，EtherCAT，16DI_NPN，24VDC
	STM0016P-EA	2XM12，Support cascading，EtherCAT，16DO_PNP，0.5A/CH，24VDC
	STM0016N-EA	2XM12，Support cascading，EtherCAT，16DO_NPN，0.5A/CH，24VDC
	STM0808P-EA	2XM12，Support cascading，EtherCAT，8DI_PNP，8DO_PNP，0.5A/CH，24VDC
	STM0808N-EA	2XM12，Support cascading，EtherCAT，8DI_NPN，8DO_NPN，0.5A/CH，24VDC

APG Industrial Gateway

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Type	Model	Specification
Industrial Gateway	APG-1501	**PROFIBUS-DP**（2xDB9）~ **Modbus RTU** master（1xRS485），24VDC，DIN35
	APG-1502	**PROFINET**（2xRJ45）~ **Modbus RTU** master（1xRS485），24VDC，DIN35
	APG-1512	**PROFINET**（2xRJ45）~ **Modbus RTU** slave（1xRS485），24VDC，DIN35
	APG-1503	**EtherNet/IP**（2xRJ45）~ **Modbus RTU** master（1xRS485），24VDC，DIN35
	APG-1504	**EtherCAT**（2xRJ45）~ **Modbus RTU** master（1xRS485），24VDC，DIN35
	APG-1505	**CC-Link IE FieldBasic**（2xRJ45）~ **Modbus RTU** master（1xRS485），24VDC，DIN35
	APG-1506	**Modbus TCP**（2xRJ45）~ **Modbus RTU** master（1xRS485），24VDC，DIN35
	APG-1508	**PROFINET**（2xRJ45）~ **Barcode Scanner**（1xRS485/1xRS232/1xUSB），24VDC，DIN35
	APG-1518	**EtherNet/IP**（2xRJ45）~ **Barcode Scanner**（1xRS485/1xRS232/1xUSB），24VDC，DIN35

09 Industrial Switch

Type	Model	Specification
Industrial Switch	IES-1050-S	Un-managed，5 Ports，10/100Mbps，12V~52VDC，IP50，mental shell，DIN35
	IES-1050GE	Un-managed，5 Ports，10/100/1000Mbps，12V~52VDC，IP50，mental shell，DIN35
	IES-1080-S	Un-managed，8 Ports，10/100Mbps，12V~52VDC，IP50，mental shell，DIN35
	IES-1080GE	Un-managed，5 Ports，10/100/1000Mbps，12V~52VDC，IP50，mental shell，DIN35
	IES-1080S-mini	Un-managed，mini tpye，8 Ports，10/100Mbps，12V~52VDC，IP50，mental shell，DIN35
	IES-1080GE-mini	Un-managed，mini tpye，5 Ports，10/100/1000Mbps，12V~52VDC，IP50，mental shell，DIN35
	IES67-1080	Un-managed，8 Ports，10/100Mbps，12V~52VDC，IP67，plastic shell，fixed installation

10 Cables & Connectors

Type	Model	Specification
Network Cable	M12D-MS-4P-RJ45-□□-PVC	M12-RJ45，4Pin male-RJ45，D-Code，Non-drag chain，□□=length
	M12D-MS-4P-M12D-MS-4P-□□-PVC	M12-M12，4Pin male-4Pin male，D-Code，Non-strap chain，□□=length
	M12D-MS-4P-M12D-FS-4P-□□-PVC	M12-M12，4Pin male--4Pin female，D-Code，Non-strap chain，□□=length
	M12D-MS-4P-RJ45-□□-PUR	M12-RJ45，4Pin male-RJ45，D-Code，strap chain，□□=length
	M12D-MS-4P-M12D-MS-4P-□□-PUR	M12-M12，4Pin male-4Pin male，D-Code，strap chain，□□=length
	M12D-MS-4P-M12D-FS-4P-□□-PUR	M12-M12，4Pin male-4Pin female，D-Code，strap chain，□□=length
Power Cable	M12L-FS-5P-□□-PVC	M12-Cable，5Pin female-5 wire cable，L-Code，Non-strap chain，□□=length
	M12L-MS-5P-M12L-FS-5P-□□-PVC	M12-M12，5Pin male-5Pin female，L-Code，Non-strap chain，□□=length
	M12L-FS-5P-□□-PUR	M12-Cable，5Pin female-5 wire cable，L-Code，strap chain，□□=length
	M12L-MS-5P-M12L-FS-5P-□□-PUR	M12-M12，5Pin male-5Pin female，L-Code，strap chain，□□=length
Sensor & IO-Link Cable	M12A-MS-5P-□□-PVC	M12-Cable，5Pin male-5 wire cable，A-Code，Non-strap chain，□□=length
	M12A-FS-5P-□□-PVC	M12-Cable，5Pin female-5 wire cable，A-Code，Non-strap chain，□□=length
	M12A-MS-5P-M12A-FS-5P-□□-PVC	M12-M12，5Pin male-5Pin female，A-Code，Non-strap chain，□□=length
	M12A-MS-5P-□□-PUR	M12-Cable，5Pin male-5 wire cable，A-Code，strap chain，□□=length
	M12A-FS-5P-□□-PUR	M12-Cable，5Pin female-5 wire cable，A-Code，strap chain，□□=length
	M12A-MS-5P-M12A-FS-5P-□□-PUR	M12-M12，5Pin male-5Pin female，A-Code，strap chain，□□=length
Connector	Y-M12-M4-2F3	Y sensor connector，M12 to 2xM12，A-Code
	Y-M12-M8-M4-2F3	Y sensor connector，M12 to 2xM8，A-Code
	M8-MS-3P	M8 sensor connector，3Pin male，screwing，A-Code
	M12A-MS-5P-PG7	M12 sensor & IO-Link connector，5Pin male，screwing，A-Code
	M12A-FS-5P-PG7	M12 sensor & IO-Link connector，5Pin female，screwing，A-Code
	M12D-MS-4P-PG7	M12 network connector，4Pin male，screwing，D-Code
	M12D-FS-4P-PG7	M12 network connector，4Pin female，screwing，D-Code
	M12D-MS-4P-PG9	M12 network connector，4Pin male，screwing，D-Code，mental shell
	M12D-FS-4P-PG9	M12 network connector，4Pin female，screwing，D-Code，mental shell
	M12L-MS-5P-PG9	M12 power input connector，5Pin male，screwing，L-Code
	M12L-FS-5P-PG9	M12 power output connector，5Pin female，screwing，L-Code

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