

Installation Instructions EtherCAT Remote Module

Version: July 2024

- Before using this product, please carefully review the installation manual. The manual only provides information on the model, port introduction, electrical specifications, and installation examples of the remote module.
- If the host computer needs to be compatible with the remote module, please contact the relevant business or download the device description file of the remote module on the official website.

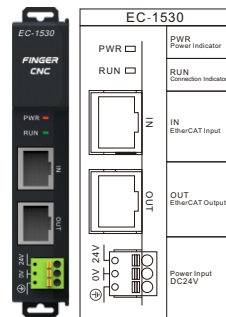
≡ M1-EC1530 EtherCAT Power Module ≡

► Model Description

M 1 - EC 1 5 3 0
(1) (2) (3) (4) (5) (6) (7)

NO.	Project	Description
(1)	Product Main Type	M: Module Product
(2)	Product Sub Type	1: Smart Series
(3)	Product Communication Method	EC: EtherCAT
(4)	Product Function	1: Power Module
(5)	Product Main Specifications	5: 5A
(6)	Product Sub-specification 1	3: 3 Ports Interface
(7)	Product Sub-specification 2	0: Standard Connector Type

► Performance & Wiring Diagram



► Electrical Specifications

Item	Indicator
Maximum distance	EtherCAT/Max. 100M (100BASE-TX)
Maximum Number of Slave Devices	8
Wire Range	UL1059(28~16AWG) IEC(0.5~1.0mm ²)
Data Transmission Rate	100 Mbps
Rated Value	24VDC Allowable Range: 24V ± 10% Reverse Polarity Protection: YES
Mounting Method	Slide type
Dimension(L*W*H)	21.5x119x70 (mm)

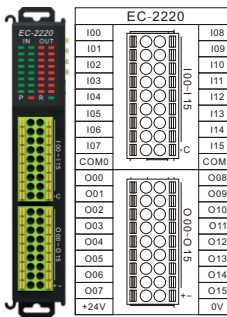
≡ M1-EC2220 EtherCAT IO Module ≡

► Model Description

M 1 - EC 2 2 2 0
(1) (2) (3) (4) (5) (6) (7)

NO.	Project	Description
(1)	Product Main Type	M: Module Product
(2)	Product Sub Type	1: Smart Series
(3)	Product Communication Method	EC: EtherCAT
(4)	Product Function	2: IO Module
(5)	Product Main Specifications	2: 16 Input
(6)	Product Sub-specification 1	2: 16 Output
(7)	Product Sub-specification 2	0: Standard Connector Type

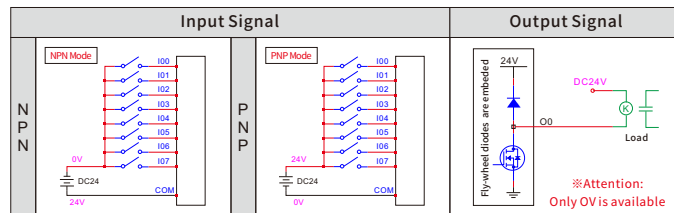
► Performance & Wiring Diagram



► Electrical Specifications

Item	Indicator
Number of EtherCAT Terminals	Input points:16 Output points:16
Wire Range	UL1059(28~16AWG) IEC(0.5~1.0mm ²)
Output Type	Transistor
Output Current	Maximum 500mA per point
Input Format	NPN/PNP switching is supported
Input Response Time	800us
Mounting Method	Slide type
Dimension(L*W*H)	21.5x119x70 (mm)

► NPN/PNP Switching (Input Common Side Description)



- ※ Attention: Independent COM connect for each group of 8-input, which is used to switch the group of inputs NPN/PNP mode.
- ※ Example: COM0 is only valid for 100~107, COM1 is only valid for 108~115, COM2 is only valid for 116~123, COM3 is only valid for 124~131.

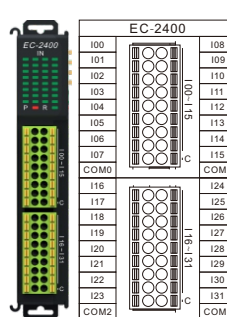
≡ M1-EC2400 EtherCAT Input Module ≡

► Model Description

M 1 - EC 2 4 0 0
(1) (2) (3) (4) (5) (6) (7)

NO.	Project	Description
(1)	Product Main Type	M: Module Product
(2)	Product Sub Type	1: Smart Series
(3)	Product Communication Method	EC: EtherCAT
(4)	Product Function	2: IO Module
(5)	Product Main Specifications	4: 32 Input
(6)	Product Sub-specification 1	0: 0 Output
(7)	Product Sub-specification 2	0: Standard Connector Type

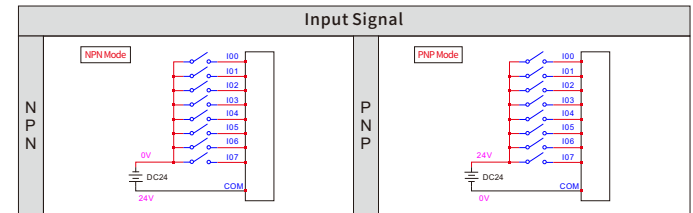
► Performance & Wiring Diagram



► Electrical Specifications

Item	Indicator	
Wire Range	UL1059(28~16AWG)	IEC(0.5~1.0mm ²)
Number of EtherCAT Terminals	Input points: 32	
Input Format	NPN/PNP switching is supported	
Input Response Time	800us	
Dimension(L*W*H)	21.5x119x70 (mm)	

► NPN/PNP Switching (Input Common Side Description)



- ※ Attention: Independent COM connect for each group of 8-input, which is used to switch the group of inputs NPN/PNP mode.
- ※ Example: COM0 is only valid for 100~107, COM1 is only valid for 108~115, COM2 is only valid for 116~123, COM3 is only valid for 124~131.

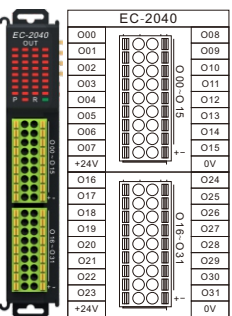
≡ M1-EC2040 EtherCAT Output Module ≡

► Model Description

M 1 - EC 2 0 4 0
(1) (2) (3) (4) (5) (6) (7)

NO.	Project	Description
(1)	Product Main Type	M: Module Product
(2)	Product Sub Type	1: Smart Series
(3)	Product Communication Method	EC: EtherCAT
(4)	Product Function	2: IO Module
(5)	Product Main Specifications	0: 0 Input
(6)	Product Sub-specification 1	4: 32 Output
(7)	Product Sub-specification 2	0: Standard Connector Type

► Performance & Wiring Diagram



► Electrical Specifications

Item	Indicator	
Wire Range	UL1059(28~16AWG)	IEC(0.5~1.0mm ²)
Output Type	Transistor	
Number of EtherCAT Terminals	Output points: 32	
Output Current	Maximum 500mA per point	
Mounting Method	Slide type	
Dimension(L*W*H)	21.5x119x70 (mm)	

► Output Connection Diagram

