

Product Type

207-D240-NX

32-channel digital input module with upright conformation

Specifications

Size: (L122 x W66 x H114 mm)

Protocol: EtherCAT

Cable Type: CAT5 UTP/STP Ethernet Cable

Surge Protection: 10KV

IO Isolation Voltage: 2.5KVrms

Input Impedance: 5.6KΩ/0.5W. Input Current: ±5mA (Max)

Power Input Voltage: +24V DC ± 10%

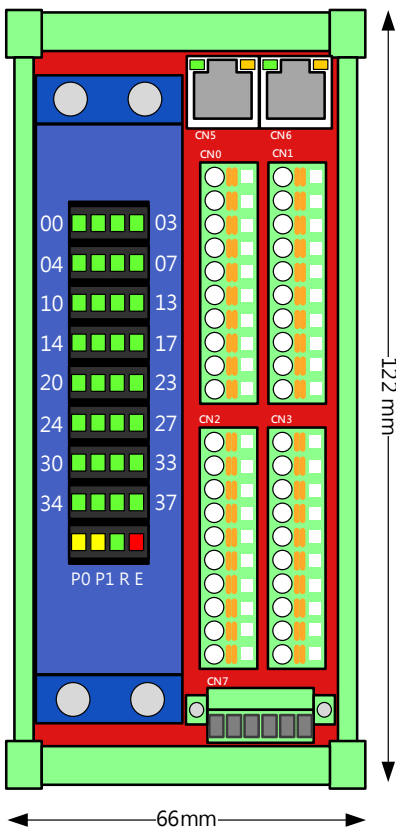
Power Consumption: 4W typical

Working Temperature: 0 ~ 60°C

Ordering Information

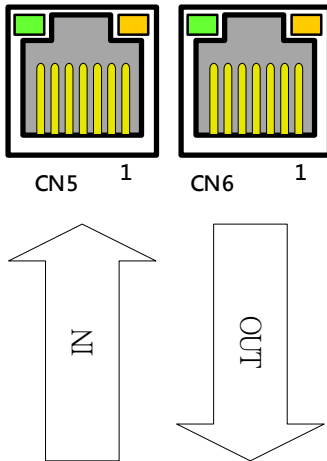
207-D240-NX – 32-channel digital input with NPN

IO interface



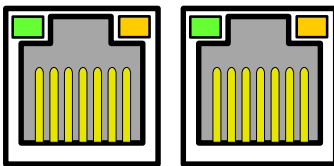
Label	Function
CN0	I/O Signal Connector
CN1	I/O Signal Connector
CN2	I/O Signal Connector
CN3	I/O Signal Connector
CN5	EtherCAT Communication IN
CN6	EtherCAT Communication OUT
CN7	Power Connector

● Communication IN and OUT

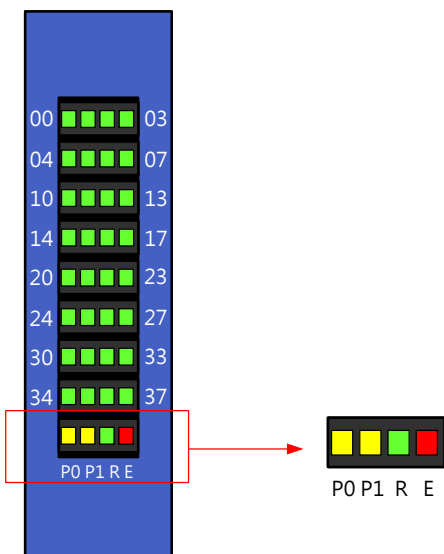


No.	Description
1	TX+
2	TX-
3	RX+
4	-
5	-
6	RX-
7	-
8	-

● Status LED

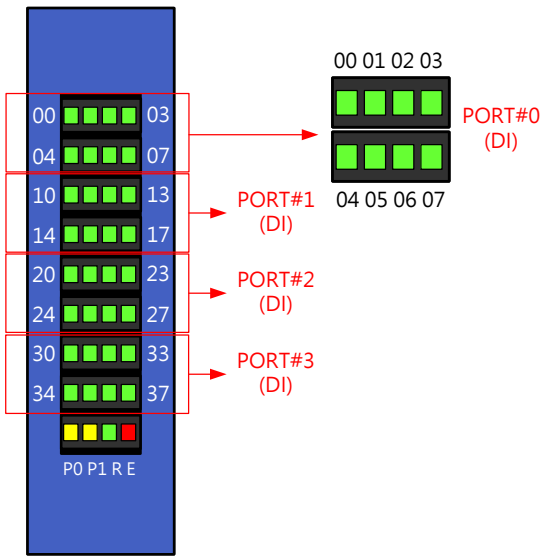


LED	Description
Left (Orange)	Link/Activity indicator: Blinking – There is activity on this port. Off – No link is established.
Right (Green)	Speed indicator: Green on – Operating as a 100/1000-Mbps connection. Off – Operating as a 10-Mbps connection.



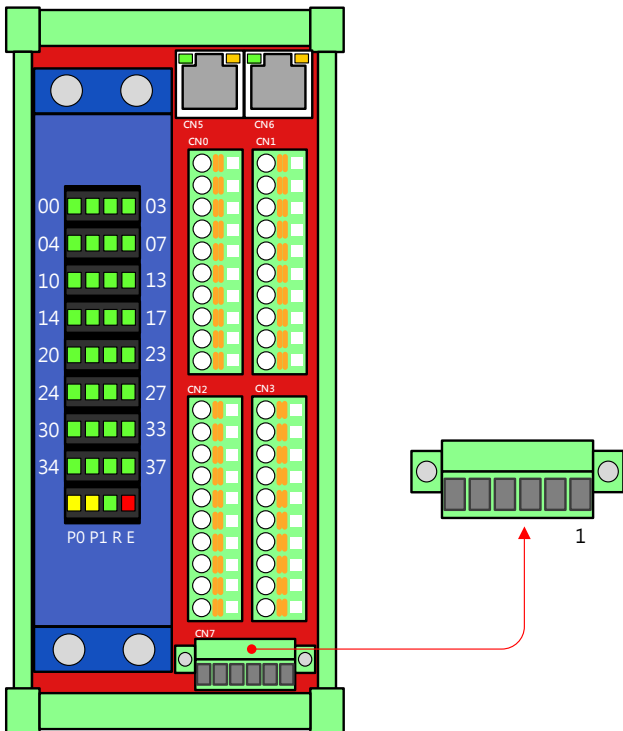
LED	Description
P0 - Yellow	DC +24V In Normal Level
P1 - Yellow	DC +5V Supply for Internal
R - Green	In Normal Communication
E - Red	Error Communication

● LED Description



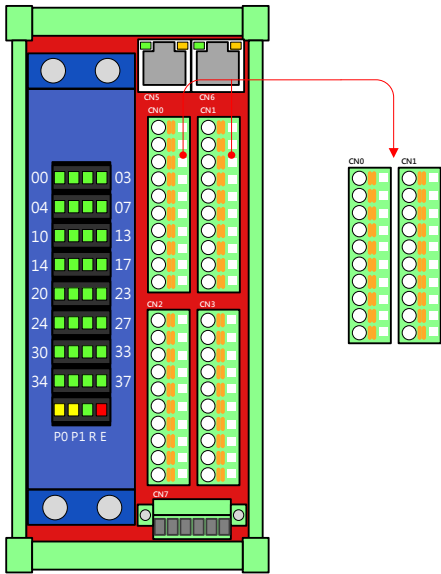
Disp	Label	Disp	Label	Disp	Label
00	Port#0 Bit0	14	Port#1 Bit4	30	Port#3 Bit0
01	Port#0 Bit1	15	Port#1 Bit5	31	Port#3 Bit1
02	Port#0 Bit2	16	Port#1 Bit6	32	Port#3 Bit2
03	Port#0 Bit3	17	Port#1 Bit7	33	Port#3 Bit3
04	Port#0 Bit4	20	Port#2 Bit0	34	Port#3 Bit4
05	Port#0 Bit5	21	Port#2 Bit1	35	Port#3 Bit5
06	Port#0 Bit6	22	Port#2 Bit2	36	Port#3 Bit6
07	Port#0 Bit7	23	Port#2 Bit3	37	Port#3 Bit7
10	Port#1 Bit0	24	Port#2 Bit4		
11	Port#1 Bit1	25	Port#2 Bit5		
12	Port#1 Bit2	26	Port#2 Bit6		
13	Port#1 Bit3	27	Port#2 Bit7		

● Power connector



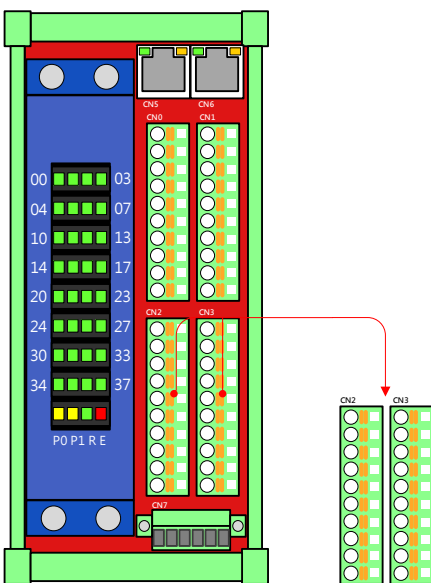
Pin	Label	Function
1	24V	DC 24V Input
2	GND	DC 24V ground
3	FG	Field ground
4	24V	DC 24V Input
5	GND	DC 24V ground
6	FG	Field ground

● I/O control connector



CN0		
Pin	Label	Function
P00	IN_00	Port#0 Bit0 Input
P01	IN_01	Port#0 Bit1 Input
P02	IN_02	Port#0 Bit2 Input
P03	IN_03	Port#0 Bit3 Input
P04	IN_04	Port#0 Bit4 Input
P05	IN_05	Port#0 Bit5 Input
P06	IN_06	Port#0 Bit6 Input
P07	IN_07	Port#0 Bit7 Input
P0A	24V	DC 24V Output
P0B	GND	DC 24V Ground

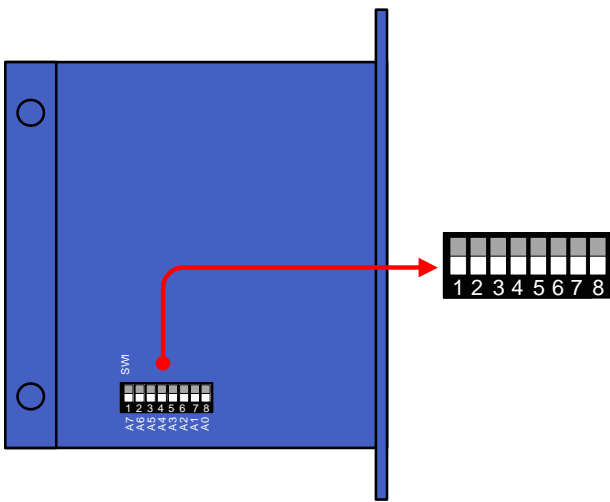
CN1		
Pin	Label	Function
P10	IN_10	Port#1 Bit0 Input
P11	IN_11	Port#1 Bit1 Input
P12	IN_12	Port#1 Bit2 Input
P13	IN_13	Port#1 Bit3 Input
P14	IN_14	Port#1 Bit4 Input
P15	IN_15	Port#1 Bit5 Input
P16	IN_16	Port#1 Bit6 Input
P17	IN_17	Port#1 Bit7 Input
P1A	24V	DC 24V Output
P1B	GND	DC 24V Ground



CN2		
Pin	Label	Function
P20	IN_20	Port#2 Bit0 Input
P21	IN_21	Port#2 Bit1 Input
P22	IN_22	Port#2 Bit2 Input
P23	IN_23	Port#2 Bit3 Input
P24	IN_24	Port#2 Bit4 Input
P25	IN_25	Port#2 Bit5 Input
P26	IN_26	Port#2 Bit6 Input
P27	IN_27	Port#2 Bit7 Input
P2A	24V	DC 24V Output
P2B	GND	DC 24V Ground

CN3		
Pin	Label	Function
P30	IN_30	Port#3 Bit0 Input
P31	IN_31	Port#3 Bit1 Input
P32	IN_32	Port#3 Bit2 Input
P33	IN_33	Port#3 Bit3 Input
P34	IN_34	Port#3 Bit4 Input
P35	IN_35	Port#3 Bit5 Input
P36	IN_36	Port#3 Bit6 Input
P37	IN_37	Port#3 Bit7 Input
P3A	24V	DC 24V Output
P3B	GND	DC 24V Ground

- SW1: node number setting



Pin	Label	On	Off
1	A7	1	0
2	A6	1	0
3	A5	1	0
4	A4	1	0
5	A3	1	0
6	A2	1	0
7	A1	1	0
8	A0	1	0

Note that node number = $128 * A7 + 64 * A6 + 32 * A5 + 16 * A4 + 8 * A3 + 4 * A2 + 2 * A1 + 1 * A0$.
 Default values are all off.

Input Signal Circuit

- NPN

