COMIZOA

8CHANNEL DIGITAL INPUT/OUTPUT MODULE

cnD08-08

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개요
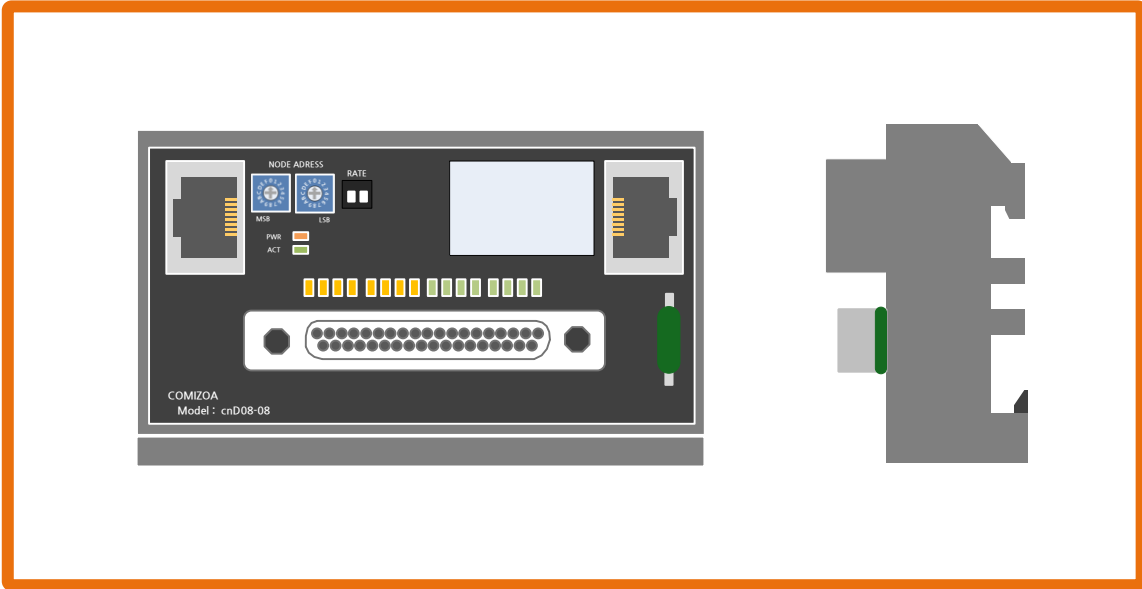
CNET Series - cnD08-08 (Digital NPN Input 8ch/ NPN Output 8ch)

cnD08-08은 커미조아의 CNET 기반 제어기의 16채널 Digital 입출력 모듈입니다.

각 채널의 내부 제어신호와 외부 입출력 신호는 포토커플러를 사용하여 절연됩니다.

본 매뉴얼은 cnD08-08의 하드웨어 구성과 기능에 대해 설명하는 하드웨어 매뉴얼 입니다.

CNET 시스템의 전반적인 내용은 CNET product System reference 매뉴얼을 참조 바랍니다.

제품사양

■ Digital Input Specification

ITEM	Details
Number of Inputs	Isolated 8 Input
Input type	Current sinking type (NPN)
Input Level Tolerant	Low (Min. 0V ~ Max 1.5V)
	High (Min. 5V ~ Max 24V)
Isolation	1000V Channel to Channel
Input Impedance	3.6 KOhm

■ Digital Output Specification

| ITEM	Details
Number of Outputs	8 output
Output Type (Module)	MOSFET with common ground(NPN)
Isolation	Photo-coupler(Viso=3,000Vrms)
OFF State Current	Max. 100uA / Point
On State Max Sink Current	Max. 500mA / Point
Rds(On state resistance)	Max. 0.5Ω (±5%)
Over-Temperature Shutdown	160°C
Over-Current Shutdown	0.7A (Min.) ~ 2A (Max.)

■ Power Specification

ITEM	Details
Power Dissipation	120mA @ 24V DC
Rated Input Voltage	24 V DC (-15%/+20%, ripple ratio within 5%) EN 61131-2

■ Environmental Specification

| ITEM	Details
Dimension	50 * 105 * 33 (mm)
Install	Industrial DIN rail
Operating Temperature Range	0℃ ~ 50℃
Storage Temperature Range	-20℃ ~ 80℃
Operating Humidity Range	5% ~ 90%RH, non-condensing
Storage Humidity Range	5% ~ 90%RH, non-condensing

제품사양

105 mm

33 mm

50 mm

COMIZOA
Model : cnD08-08
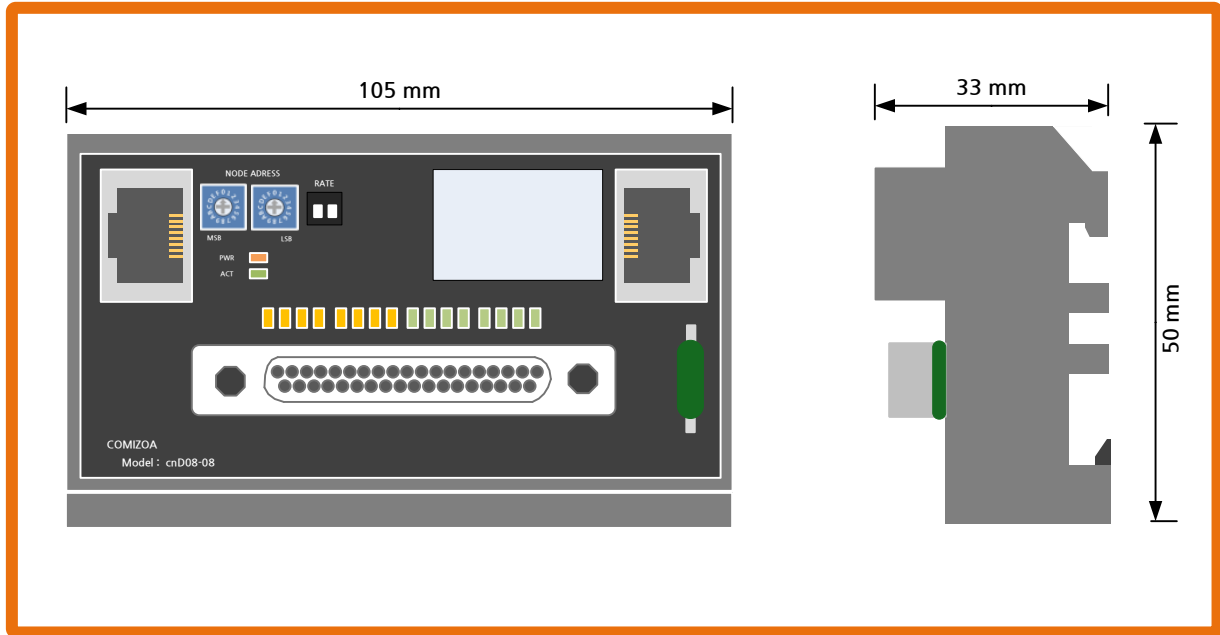
Dimension

Wiring

▣ RJ45 Connector

	P1			P2	
1	NC		1	NC	
2	NC		2	NC	
3	RS485_D+		3	RS485_D+	
4	NC		4	NC	
5	NC		5	NC	
6	RS485_D-		6	RS485_D-	
7	NC		7	NC	
8	NC		8	NC	

▣ Circuit Diagram
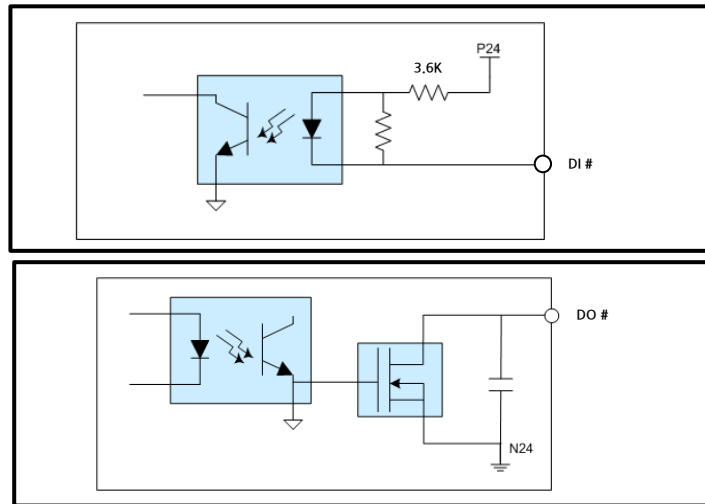
▣ PIN MAP

DI/DO Ch 0 ~ 8
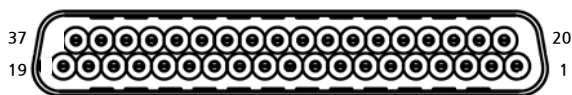
1	DO7	2	DO6	3	DO5	4	DO4
5	DO3	6	DO2	7	DO1	8	DO0
9	VDD	10	DI7	11	DI6	12	DI5
13	DI4	14	DI3	15	DI2	16	DI1
17	DI0	18	VDD	19	NC	20	NC
21	NC	22	NC	23	NC	24	NC
25	NC	26	NC	27	NC	28	N24V
29	NC	30	NC	31	NC	32	NC
33	NC	34	NC	35	NC	36	NC
37	NC						
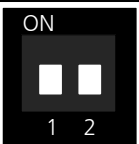
Device ID Setting

MSB LSB	NODE ID setting	MSB(1:0) * 16 + LSB
	NODE ID range	0 ~ 63

Indicators

PWR	SYSTEM POWER LED	ON	SYSTEM POWER(3.3V DC) ON
		OFF	SYSTEM POWER(3.3V DC) OFF
ACT	C-NET STATE LED	ON	C-NET COMMUNICATION ACTIVATE
		OFF	C-NET COMMUNICATION DEACTIVATE

C-NET Baud Rate Setting

ON	11	2.5Mbps
	10	5Mbps
1 2	01	10Mbps
	00	20Mbps

Hardware Reference Manual Update List

No.	Version	Date	Changes in
1			
2	1.01	2016.03.04	글꼴변경 (나눔고딕, 굴림)

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