

CNET Hardware Reference Manual



8CHANNEL **DIGITAL INPUT/OUTPUT** MODULE

cnDV8-8

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개요



CNET Series - cnDV8-8 (Digital NPN Input 8ch / Output 8ch)

cnDV8-8은 커미조아의 CNET 기반 제어기의 16채널 Digital 입출력 모듈입니다.
각 채널의 내부 제어신호와 외부 입출력 신호는 포토커플러를 사용하여 절연됩니다.
본 매뉴얼은 cnDV8-8의 하드웨어 구성과 기능에 대해 설명하는 하드웨어 매뉴얼입니다.
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	24V DC (-15%/+20%, ripple ratio within 5%) EN 61131-2

▣ Environmental Specification

ITEM	Details
Dimension	20 * 99(127) * 76 (mm)
Install	Industrial DIN rail
Operating Temperature Range	0°C ~ 50°C
Storage Temperature Range	-20°C ~ 80°C
Operating Humidity Range	5% ~ 90%RH, non-condensing
Storage Humidity Range	5% ~ 90%RH, non-condensing

제품사양



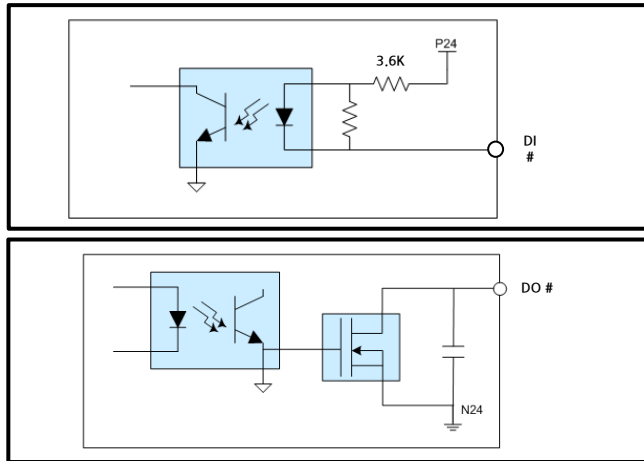
Dimension

Wiring

■ RJ45 Connector

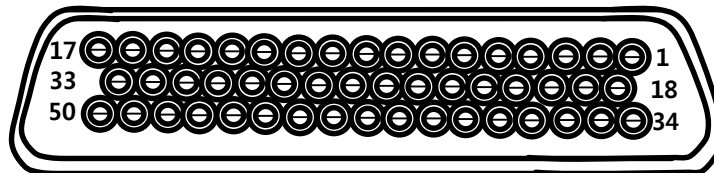
P2		P1		P1		P2	
8	1	8	1	1	NC	1	NC
				2	NC	2	NC
				3	RS485_D+	3	RS485_D+
				4	NC	4	NC
				5	NC	5	NC
				6	RS485_D-	6	RS485_D-
				7	NC	7	NC
				8	NC	8	NC

■ Circuit Diagram



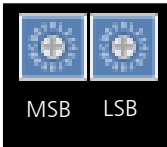
■ PIN MAP

DI/DO Ch 0 ~ 7




1	P24V	2	P24V	3	P24V	4	P24V	5	P24V
6	P24V	7	P24V	8	P24V	9	P24V	10	P24V
11	P24V	12	P24V	13	P24V	14	P24V	15	P24V
16	P24V	17	P24V	18	DI0	19	DI1	20	DI2
21	DI3	22	DI4	23	DI5	24	DI6	25	DI7
26	DO0	27	DI1	28	DI2	29	DI3	30	DI4
31	DI5	32	DI6	33	DI7	34	N24V	35	N24V
36	N24V	37	N24V	38	N24V	39	N24V	40	N24V
41	N24V	42	N24V	43	N24V	44	N24V	45	N24V
46	N24V	47	N24V	48	N24V	49	N24V	50	N24V

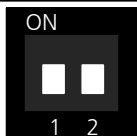
Device ID Setting

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

Indicators

 P A			
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
	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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