CNET Hardware Reference Manual



16CHANNEL DIGITAL INPUT/OUTPUT MODULE cnDM16-16

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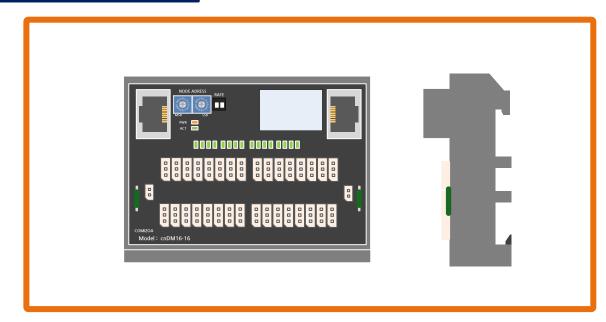


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개요



CNET Series - cnDM16-16 (Digital NPN Input 16ch / Output 16ch)

cnDM16-16은 커미조아의 CNET 기반 제어기의 32채널 Digital 입출력 모듈입니다. 각 채널의 내부 제어신호와 외부 입출력 신호는 포토커플러를 사용하여 절연됩니다. 본 매뉴얼은 cnDM16-16의 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 16 Input
Input type	Current sinking type (NPN)
Input Level Telerant	Low (Min. 0V ~ Max 1.5V)
Input Level Tolerant	High (Min. 5V ~ Max 24V)
Isolation	1000V Channel to Channel
Input Impedance	3.6 KOhm

Digital Output Specification

ITEM	Details
Number of Outputs	16 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

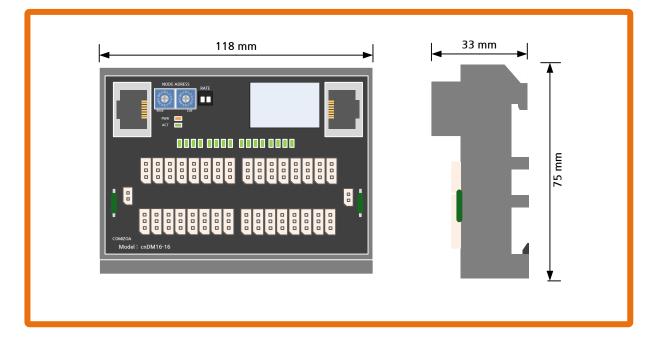
ITEM	Details
Power Dissipation	120mA @ 24V DC
Rated Input Voltage	24V DC (-15%/+20%, ripple ratio within 5%) EN 61131-2

Environmental Specification

ITEM	Details
Dimension	75 * 118 * 33 (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

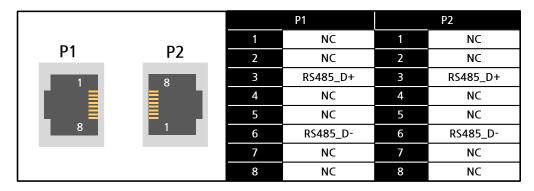


Dimension



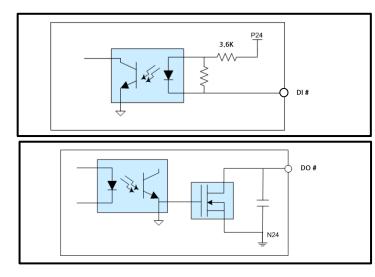
Wiring

RJ45 Connector



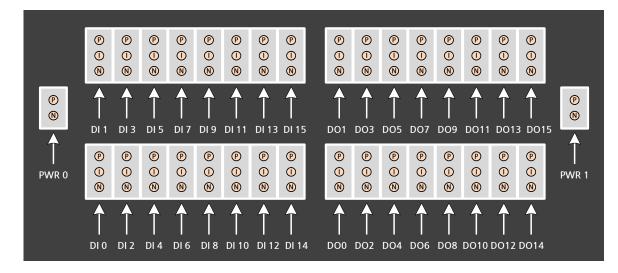
Circuit Diagram





PWR 0, 1				
P	Р	PWR 24V		
N	N	PWR OV		
DI/DO 0~15				
	Р	I/O PWR 24V		
(P) (1)		Digital In/Out		
N	N	I/O PWR OV		

Contact Number



* All numberings are zero based



Device ID Setting

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

Indicators

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

C-NET Baud Rate Setting

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