CNET Hardware Reference Manual

COMIZOA

32CHANNEL DIGITAL OUTPUT MODULE

cnDM00-32

MAR 2016

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Revision Data 2016. 03. 04

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개요
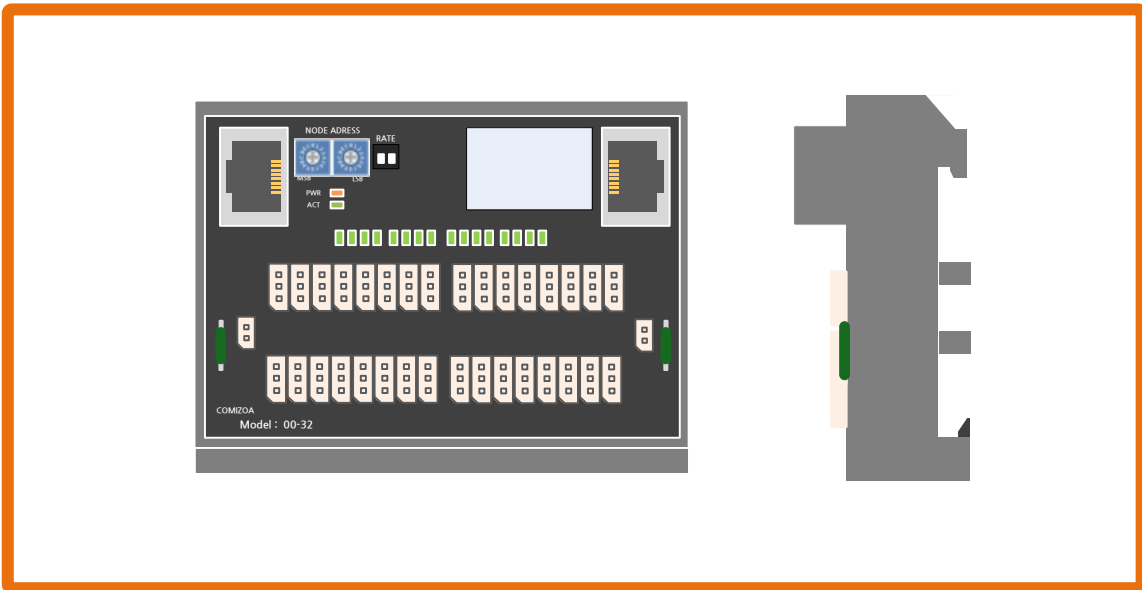
CNET Series - cnDM00-32 (Digital NPN Output 32ch)

cnDM00-32은 커미조아의 CNET 기반 제어기의 32채널 Digital 출력 모듈입니다.

각 채널의 내부 제어신호와 외부 입출력 신호는 포토커플러를 사용하여 절연됩니다.

본 매뉴얼은 cnDM00-32의 하드웨어 구성과 기능에 대해 설명하는 하드웨어 매뉴얼 입니다.

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

제품사양

◼ DIGITAL Specification

ITEM	Details
Number of Outputs	32 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℃ ~ 50℃
Storage Temperature Range	-20℃ ~ 80℃
Operating Humidity Range	5% ~ 90%RH, non-condensing
Storage Humidity Range	5% ~ 90%RH, non-condensing

Dimension
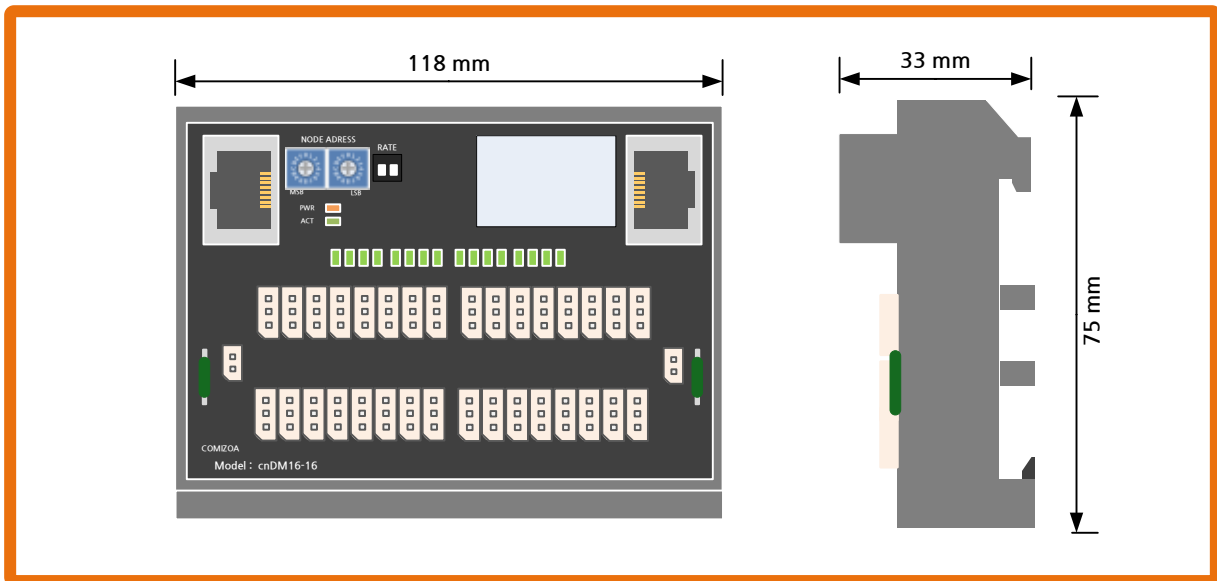
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Wiring

◪ 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

P1   P2

◪ Circuit Diagram

DO #

N24
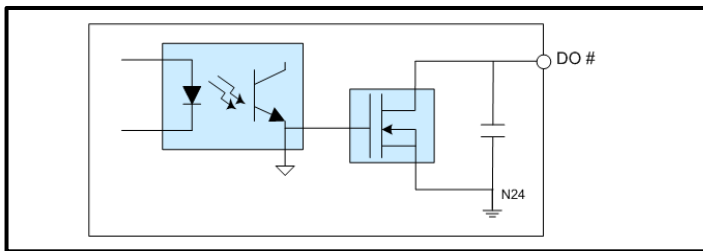
◪ PIN MAP

PWR 0, 1	
P	PWR 24V
N	PWR 0V

DO 0 ~ 31	
P	I/O PWR 24V
I	Digital Output
N	I/O PWR 0V

◪ Contact Number

DO1 DO3 DO5 DO7 DO9 DO11 DO13 DO15   DO17 DO19 DO21 DO23 DO25 DO27 DO29 DO31

PWR 0   DO0 DO2 DO4 DO6 DO8 DO10 DO12 DO14   DO16 DO18 DO20 DO22 DO24 DO26 DO28 DO30   PWR 1
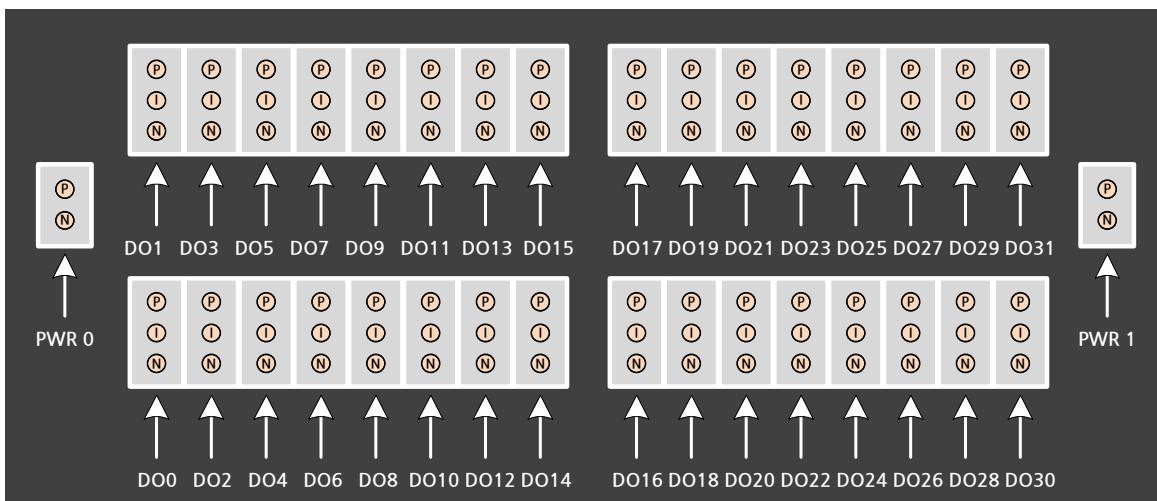
※ All numberings are zero based
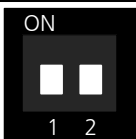
Device ID Setting

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

Indicators

PWR	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

	11	2.5Mbps
ON 1 2	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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