

CNET Hardware Reference Manual



32CHANNEL DIGITAL OUTPUT MODULE

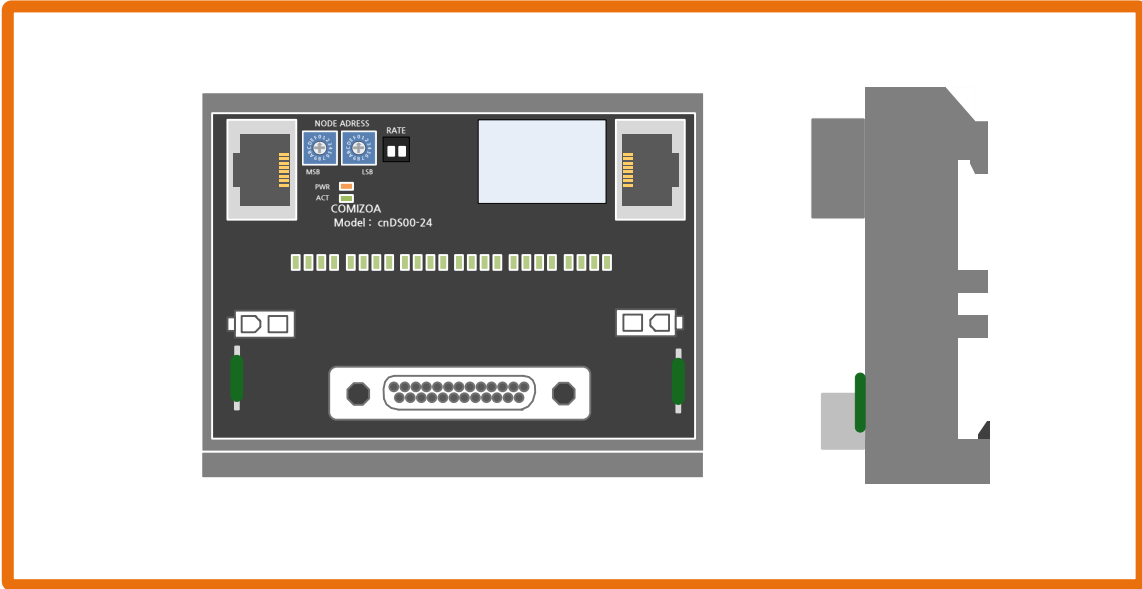
cnDS00-24

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개요

CNET Series - cnDS00-24 (Digital NPN Output 24ch)

cnDS00-24은 커미조아의 CNET 기반 제어기의 24채널 Digital 출력 모듈입니다.
 각 채널의 내부 제어신호와 외부 입출력 신호는 포토커플러를 사용하여 절연됩니다.
 본 매뉴얼은 cnDS00-24의 하드웨어 구성과 기능에 대해 설명하는 하드웨어 매뉴얼입니다.
 CNET 시스템의 전반적인 내용은 CNET product System reference 매뉴얼을 참조 바랍니다.

제품사양
■ Digital Specification

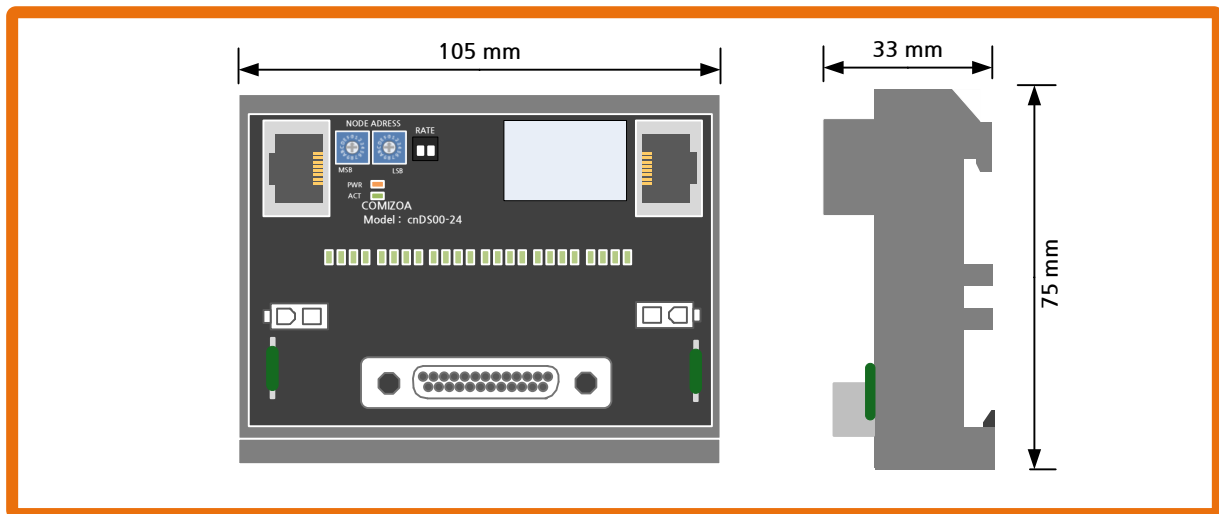
ITEM	Details
Number of Outputs	24 output
Output Type (Module)	MOSFET with common ground(NPN)
Isolation	Photo-coupler(Viso=3,000Vrms)
OFF State Current	Max. 100uA / Point
On State Max Sink Current	Max. 500mA / Point
Rds(On state resistance)	Max. 0.5Ω (±5%)
Over-Temperature Shutdown	160°C
Over-Current 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 * 105 * 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

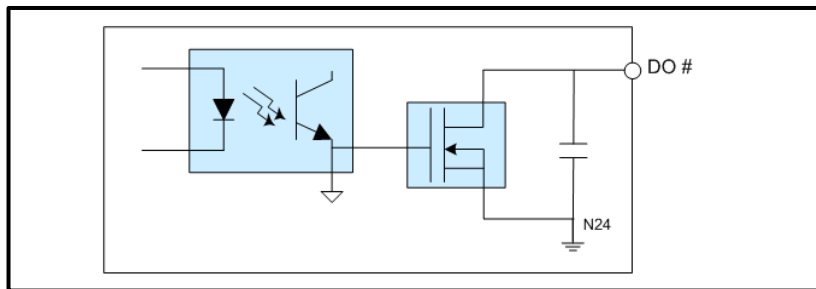

Dimension

Wiring

■ RJ45 Connector

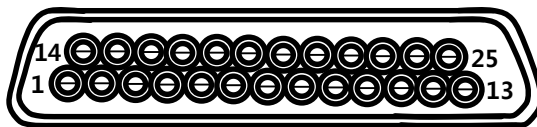
	P1		P2	
	1	NC	1	NC
	2	NC	2	NC
	3	RS485_D+	3	RS485_D+
	4	NC	4	NC
	5	NC	5	NC
	6	RS485_D-	6	RS485_D-
	8	NC	8	NC

■ Circuit Diagram



■ PIN MAP


Ch 0 ~ 24




Ch 0 ~ 16

1	DO0	2	DO2	3	DO4	4	DO6
5	DO8	6	DO10	7	DO12	8	DO14
9	DO16	10	DO18	11	DO20	12	DO22
13	VDD	14	DO1	15	DO3	16	DO5
17	DO7	18	DO9	19	DO11	20	DO13
21	DO15	22	DO17	23	DO19	24	DO21
25	DO23						


Device ID Setting

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

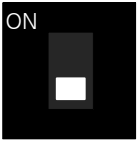
Indicators

			
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

	11	2.5Mbps
	10	5Mbps
	01	10Mbps
	00	20Mbps

Terminating Resistor

	UP	Resistor On
	Down	Resistor Off

Hardware Reference Manual Update List

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

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