CNET Hardware Reference Manual

COMIZOA

32CHANNEL DIGITAL OUTPUT MODULE

cnDV00-32

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개요

CNET Series - cnDV00-32 (Digital NPN Output 32ch)

cnDV00-32은 커미조아의 CNET 기반 제어기의 32채널 Digital 출력 모듈입니다.

각 채널의 내부 제어신호와 외부 입출력 신호는 포토커플러를 사용하여 절연됩니다.

본 매뉴얼은 cnDV00-32의 하드웨어 구성과 기능에 대해 설명하는 하드웨어 매뉴얼 입니다.

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

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제품사양

◉ Digital Output 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

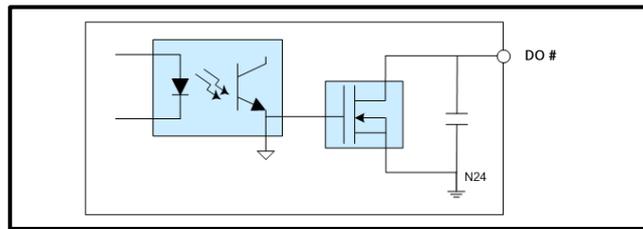| ITEM	Details
Dimension	20 * 134(162) * 76 (mm)
Install	Industrial DIN rail
Operating Temperature Range	0℃ ~ 50℃
Storage Temperature Range	-20℃ ~ 80℃
Operating Humidity Range	5% ~ 90%RH, non-condensing
Storage Humidity Range	5% ~ 90%RH, non-condensing

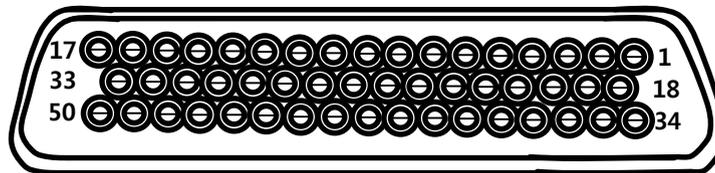Dimension

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

Ch 0 ~ 31

1	DO0	2	DO1	3	DO2	4	DO3	5	DO4
6	DO5	7	DO6	8	DO7	9	DO8	10	DO9
11	DO10	12	DO11	13	DO12	14	DO13	15	DO14
16	DO15	17	DO16	18	DO17	19	DO18	20	DO19
21	DO20	22	DO21	23	DO22	24	DO23	25	DO24
26	DO25	27	DO26	28	DO27	29	DO28	30	DO29
31	DO30	32	DO31	33	NC	34	P24V	35	P24V
36	P24V	37	P24V	38	P24V	39	P24V	40	P24V
41	P24V	42	NC	43	NC	44	N24V	45	N24V
46	N24V	47	N24V	48	N24V	49	N24V	50	N24V

Device ID Setting

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

Indicators

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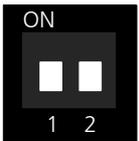
ON	11	2.5Mbps
	10	5Mbps
	01	10Mbps
1 2	00	20Mbps

Hardware Reference Manual Update List

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

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