ETS Hardware Reference Manual



32CHANNEL DIGITAL NPN TYPE INPUT MODULE

ETS-DI32N-T (v1.00)

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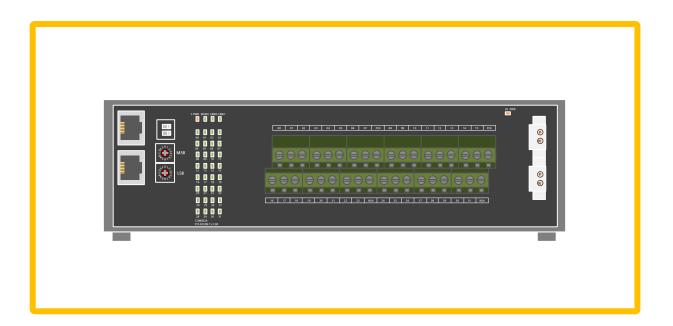


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개요

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ETS - DI32N - T (Digital NPN Input 32ch)

ETS-DI32N-T는 커미조아의 EtherCAT 기반 제어기의 32채널 Digital 입력 모듈입니다.

각 채널의 내부 제어신호와 외부 입출력 신호는 포토커플러를 사용하여 절연됩니다.

본 매뉴얼은 ETS-DI32N-T의 하드웨어 구성과 기능에 대해 설명하는 하드웨어 매뉴얼 입니다.

- **■** EtherCAT Slave Module
- CiA Standard 401 and ETG.5001 Modular Device Profile
- Supports Terminal Device ID
- Digital I/O Power Over Current Protection
- Digital Input 32(NPN)
- Independent System Power



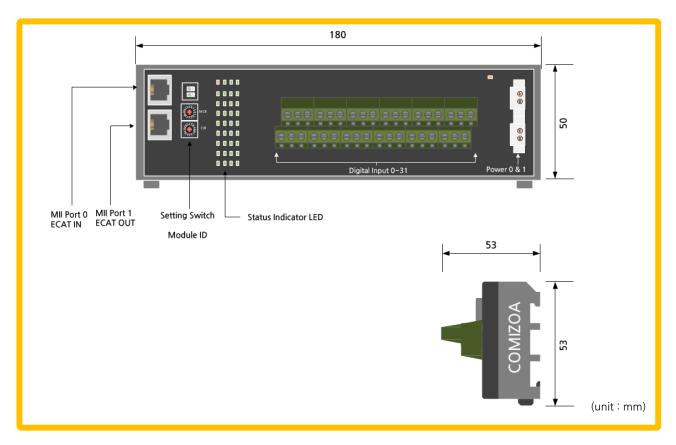
Specification

Contents	Details
Dimension	180 * 53 * 53 (mm)
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 80°C
Humidity	5% ~ 90%, non-condensing
Power consumption	System Power : 47mA @ DC 24V ± 5% I/O Power : 180mA @ DC 24V ± 5%

Environmental Specification

Contents	Details
Number of Inputs	32 Input
Input type	Current Sinking type (NPN)
Isolation	Photo-coupler (Viso = 3,000Vrms)
OFF State Voltage (logic ' 1')	Min. 11V DC ~ Max. 28.8 V DC (EN 61131-2, type 1/3)
On State Voltage (logic ' 0')	Min. 0V DC ~ Max. 5V DC (EN 61131-2, type 1/3)
Input Current	Max. 4.56mA per @ 24V DC
Input Impedance	Approx. 5KΩ (±5%)
Wiring Contact	I/O: 36P Screw Type Terminal / Power: USL-3FBS-2P

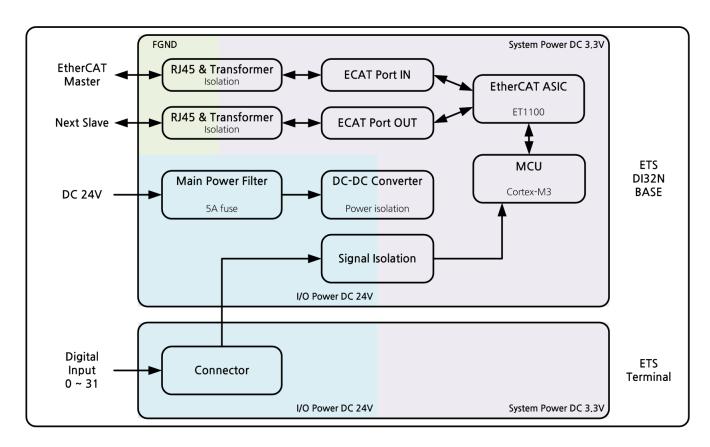
Digital Input Specification



Dimension

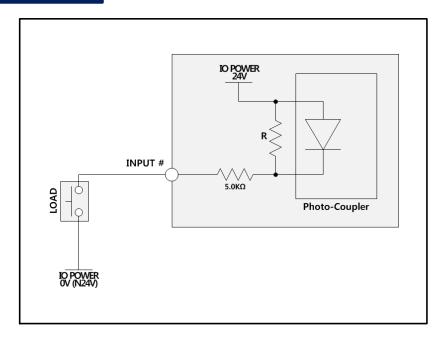


Block Diagram



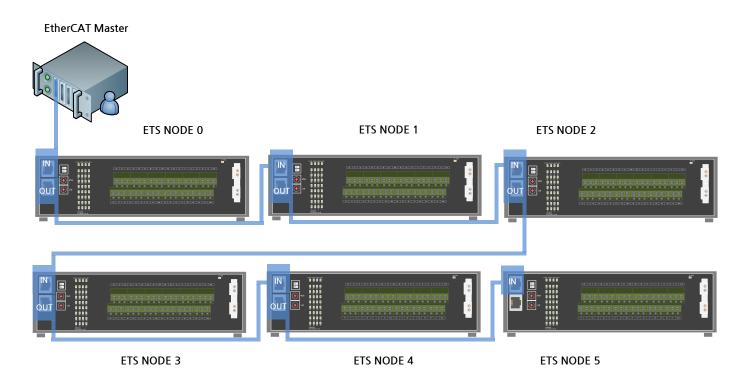
ETS-DI32N-T Block diagram

Circuit Diagram (Digital Input)

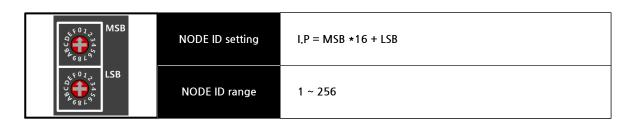




Interface Connect



Device ID Setting



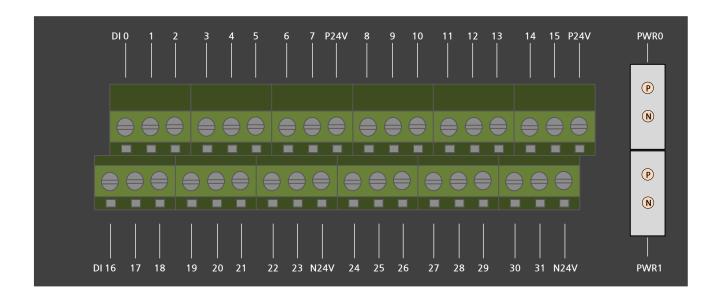


Connector

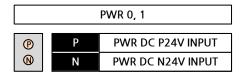
■ RJ45 Connector

		RJ45 IN		RJ45 OUT	
_ 8		1	TX+	1	TX+
1	IN	2	TX-	2	TX-
		3	RX+	3	RX+
	OUT	4	NC	4	NC
8		5	NC	5	NC
		6	RX-	6	RX-
1		7	NC	7	NC
		8	NC	8	NC

■ Contact Number



■ PIN MAP

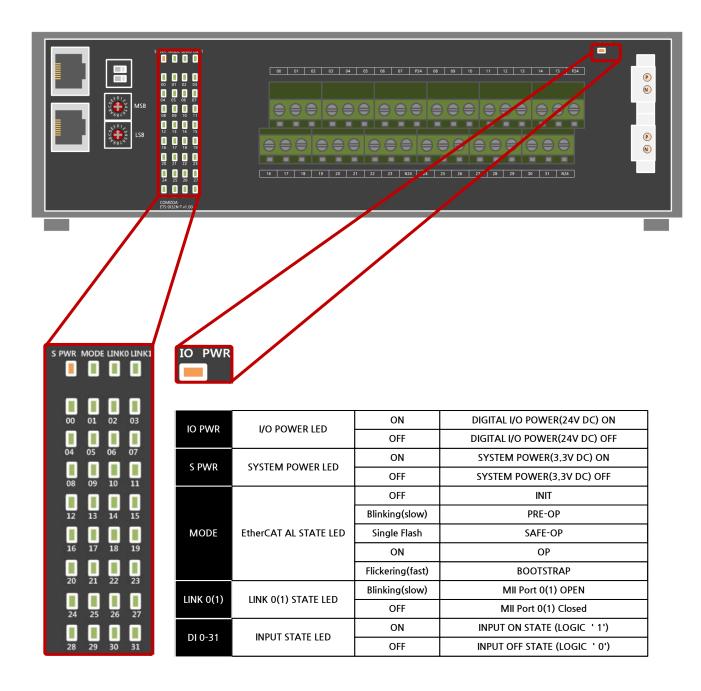


P24V, N24V				
P24V	PWR DC P24V OUTPUT			
N24V	PWR DC N24V OUTPUT			

DI32N-T

Status LED

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Hardware Reference Manual Update List

No.	Version	Date	Changes in
1	1.00	2016.03.08	First Edition
2	1.01	2017.10.24	RJ-45 Connector Update

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