ETS Hardware Reference Manual



4CHANNEL ANALOG CURRENT OUTPUT MODULE

ETS-AO04I-E

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개요



ETS - AOO4I - E (Analog Current Output 4ch)

ETS-AO04I-E는 커미조아의 EtherCAT 기반 제어기의 4채널 Analog 전류 출력 모듈입니다.

각 채널은 4~20mA, 0~20mA, 0~24mA의 전류 출력 범위를 선택 가능합니다.

본 매뉴얼은 ETS-AO04I-E의 하드웨어 구성과 기능에 대해 설명하는 하드웨어 매뉴얼 입니다.

- **■** EtherCAT Slave Module
- CiA Standard 401 and ETG.5001 Modular Device Profile
- Supports Terminal Device ID
- 16bit(2's Compliment) Resolution
- Analog Output 4(Current)
- Independent System Power



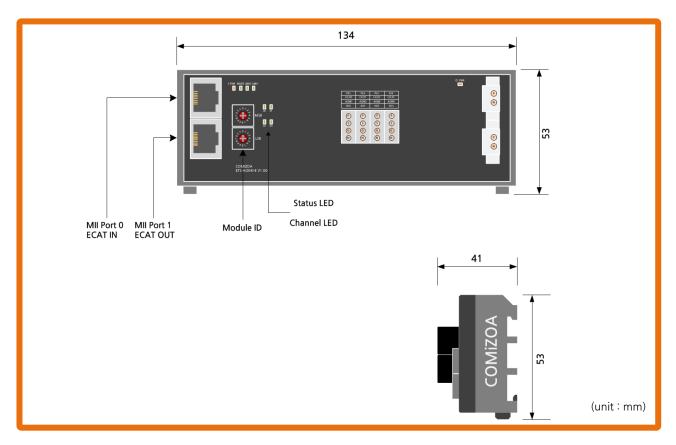
제품사양

Contents	Details
Dimension	134 * 53 * 41 (mm)
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 80°C
Humidity	5% ~ 90%, non-condensing
Power consumption	System Power: 62 mA @ DC 24V ± 5% Analog Power: 47 mA @ DC 24V ± 5%

Environmental Specification

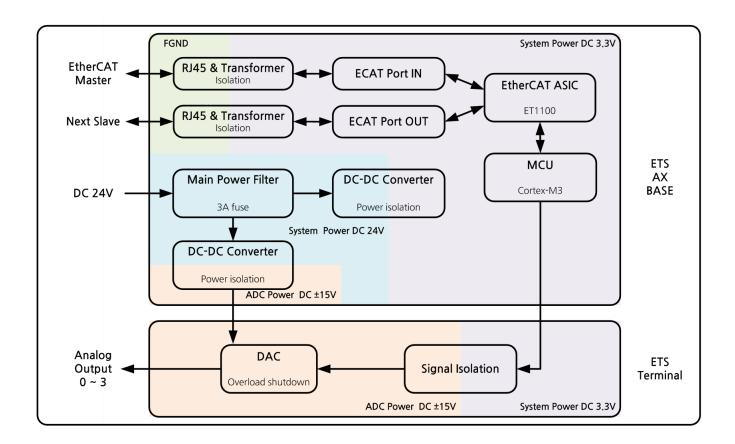
Contents	Details
Number of Outputs	4 Output
Output type	Single-ended
Isolation	I/O to Logic : Isolator (Viso = 2,500Vrms)
Resolution	16bit(2's Compliment)
Current Output Range	4~20mA, 0~20mA, 0~24mA Selectable
Error	Offset Error : ± 0.25% Gain Error : ± 0.25%
Conversion Time	Min. 100us / All Channels
Wiring Contact	I/O: 4-Pin E-CON / Power: USL-3FBS-2P

Analog Output Specification



Dimension

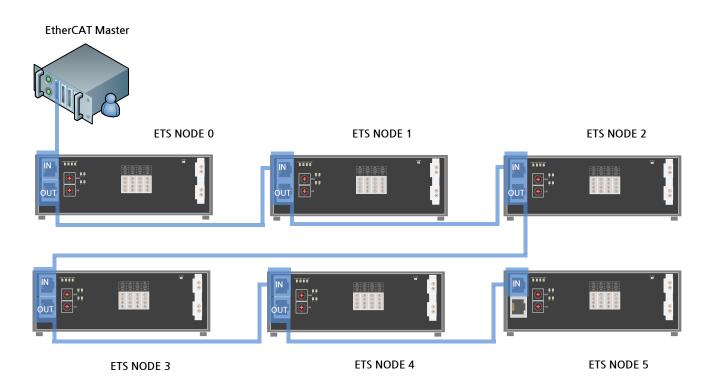
Block diagram



ETS-AO04I-E Block diagram



Interface Connect



Device ID Setting



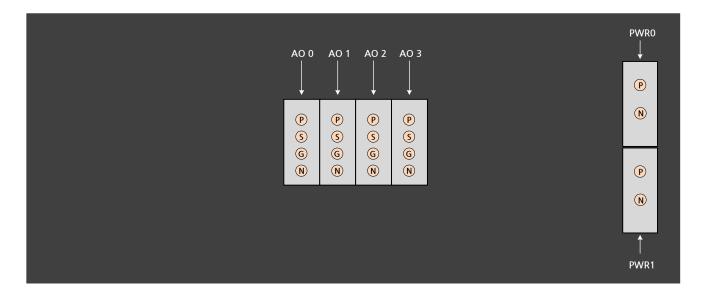


Connector

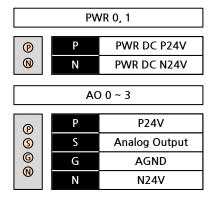
■ RJ45 Connector

			RJ45 IN		RJ45 OUT	
_ 8	IN	1	TX+	1	TX+	
		2	TX-	2	TX-	
1		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

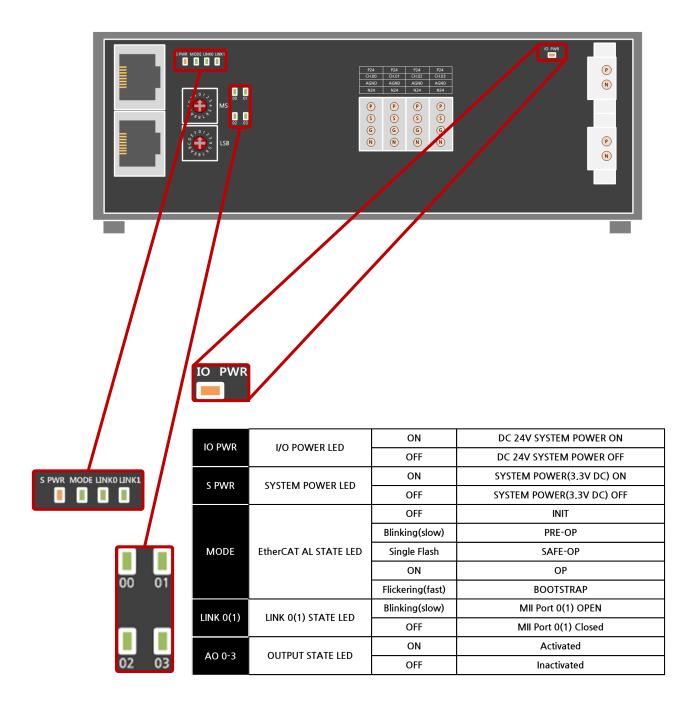


■ PIN MAP

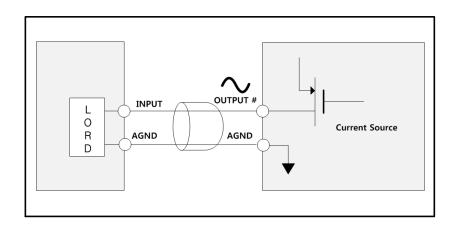




Status LED



Circuit Diagram (Analog Output)





Hardware Reference Manual Update List

No.	Version	Date	Changes in
1	1.00	2016.04.25	First Edition
2	1.01	2017.10.24	RJ-45 Connector Update

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