ETS Hardware Reference Manual



4CHANNEL ANALOG VOLTAGE OUTPUT MODULE

ETS-AO04V-E

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Table Of Contents

1	개요	1
2	제품사양	2
3	Block diagram ·····	3
4	Interface Connect ·····	4
5	Device ID Setting ·····	4
6	Connector ·····	5
7	Status LED ·····	6
8	Circuit Diagram ······	7



개요



ETS - AO04V - E (Analog Voltage Output 4ch)

ETS-AO04V-E는 커미조아의 EtherCAT 기반 제어기의 4채널 Analog 전압 출력 모듈입니다. 각 채널은 0~5V / 0~10V / 0~10.8V / ±5V / ±10V / ±10.8V의 전압 출력 범위를 선택 가능합니다.

본 매뉴얼은 ETS-AO04V-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(Voltage)
- Independent System Power



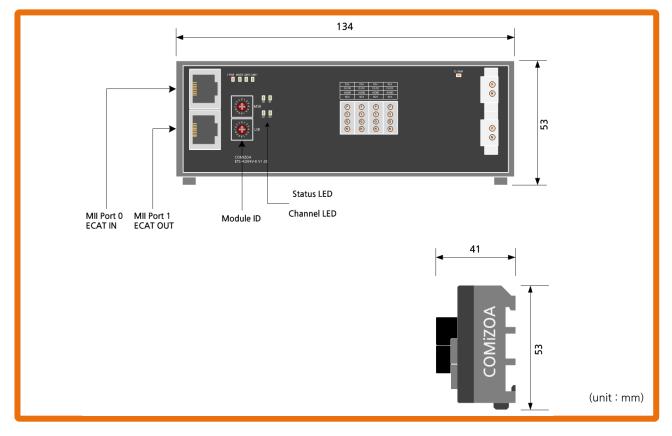
제품사양

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: 46 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)
Voltage Output Range	DC 5V, 10V, 10.8V, ±5V, ±10V, ±10.8V Selectable
Error	Offset Error :± 6 mV Gain Error :± 0.3 %
Load Resistance	Min. 5KΩ
Conversion Time	Min. 200us / All Channels
Wiring Contact	I/O: 4-Pin E-CON / Power: USL-3FBS-2P

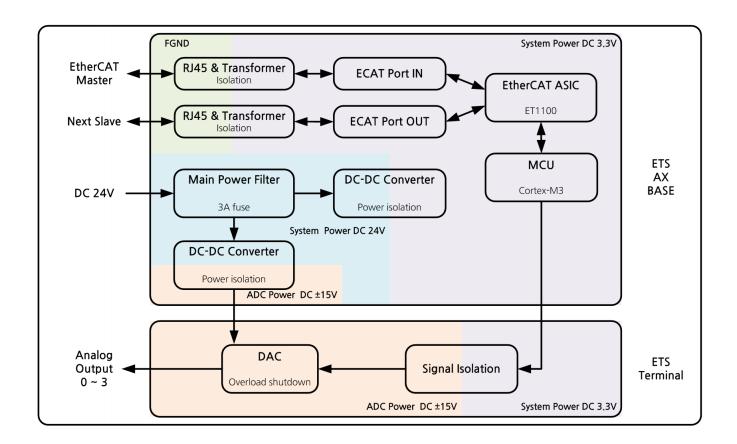
Analog Output Specification



Dimension



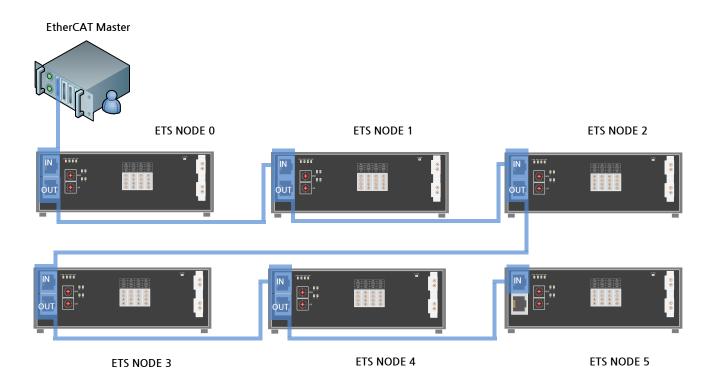
Block diagram



ETS-AO04V-E Block diagram



Interface Connect



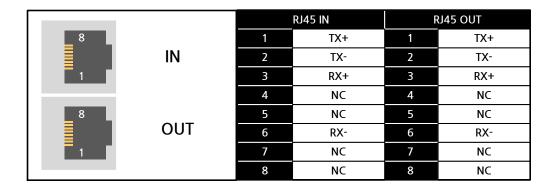
Device ID Setting



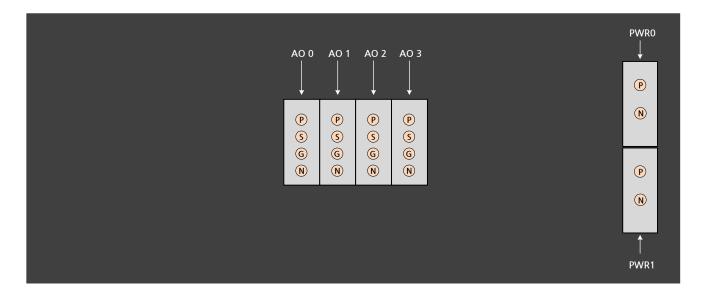


Connector

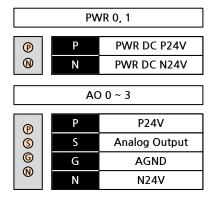
■ RJ45 Connector



■ Contact Number

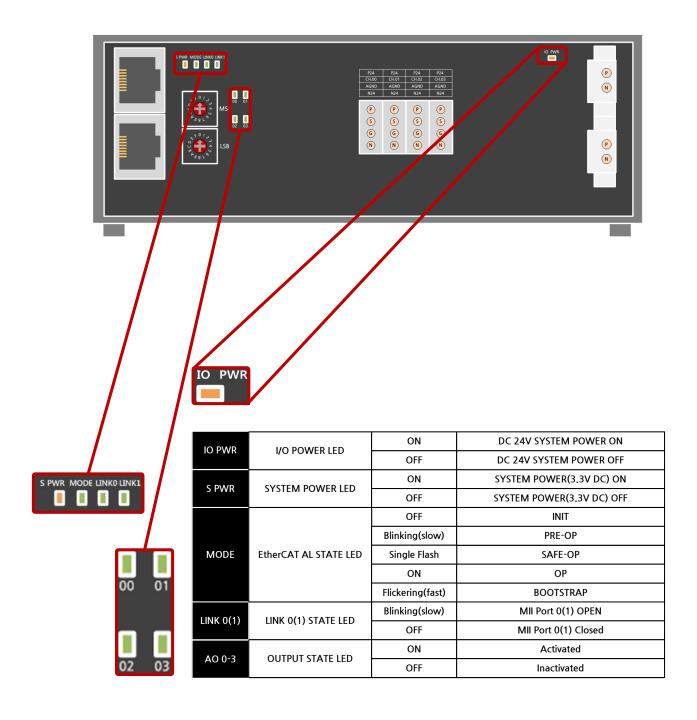


■ PIN MAP



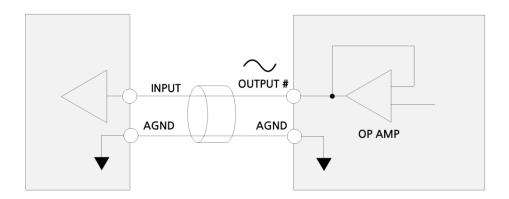


Status LED





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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COMIZOA *CO.,LTD* http://www.comizoa.com Tel) +82 - 42 - 936 - 6500 Fax) +82 - 42 - 936 - 6507

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