ETS Hardware Reference Manual



16CHANNEL ANALOG INPUT MODULE

ETS-AI16AH-E

MAY 2019 ©2019 COMIZOA, All rights reserved

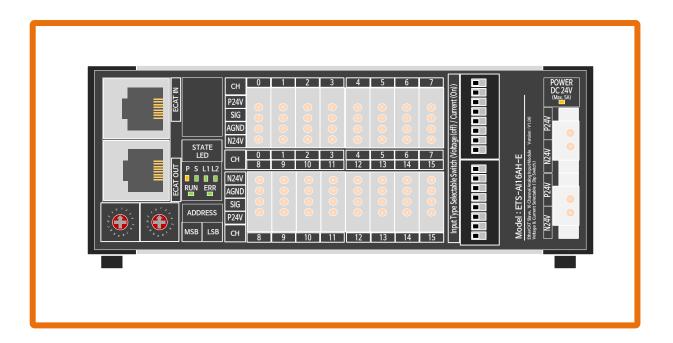


Table Of Contents

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 - AI16AH - E (Analog Input 16ch)

ETS-Al16AH-E는 커미조아의 EtherCAT 기반 제어기의 16 채널 Analog 입력 모듈입니다.

각 채널은 최대 -10 ~ +10(V)의 전압 혹은 4~20mA, 4~24mA, 0~20mA의 전류를 선택적(DIP SWITCH 설정)으로 입력 받을 수 있습니다.

본 매뉴얼은 ETS-Al16 AH-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 Input 16(Voltage/Current)
- **■** Independent System Power



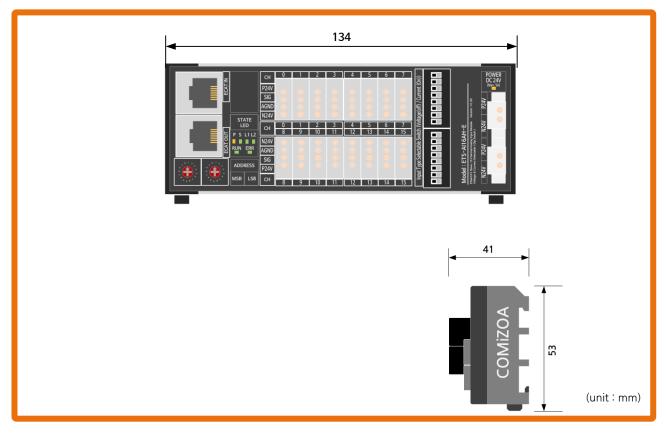
제품사양

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: 41 mA @ DC 24V ± 5%

Environmental Specification

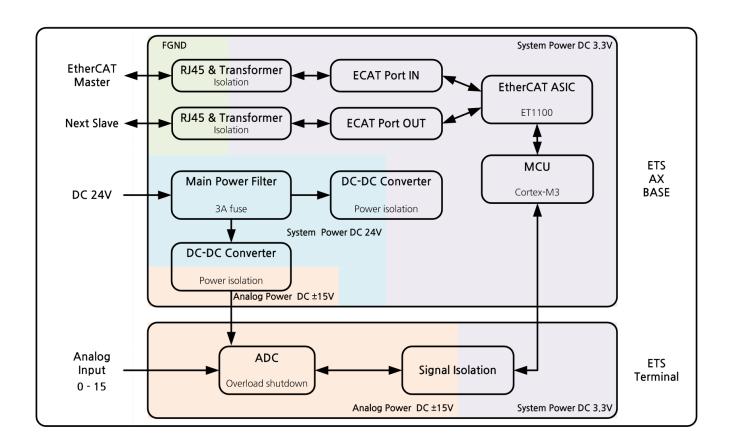
Contents	Details
Number of Inputs	16 Input
Input type	Single-ended
Isolation	I/O to Logic : Photo-coupler (Viso = 3,000Vrms)
Resolution	16bit(2's Compliment)
Voltage Input Range	± 10.24V, ± 5.12V, ± 2.56V, 0 ~ 10.24V, 0 ~ 5.12V
Current Input Range	4 ~ 20mA, 0 ~ 20mA, 4 ~ 24mA
Error	Offset Error :± 0.01V, 0.05mA Gain Error :± 0.45%
Wiring Contact	I/O: 4-Pin E-CON / Power: USL-3FBS-2P

Analog Input Specification



Dimension

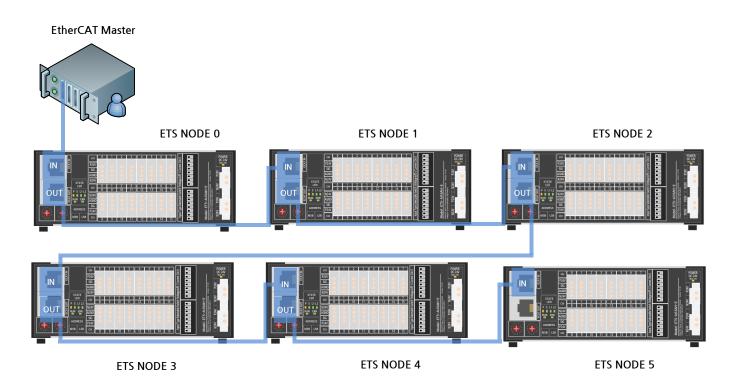
Block diagram



ETS-AI16AH-E Block diagram



Interface Connect



Device ID Setting

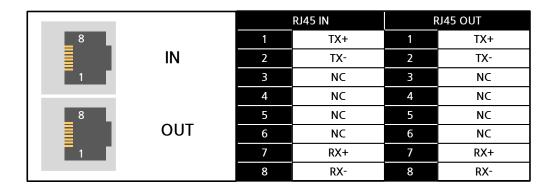


ETS Series

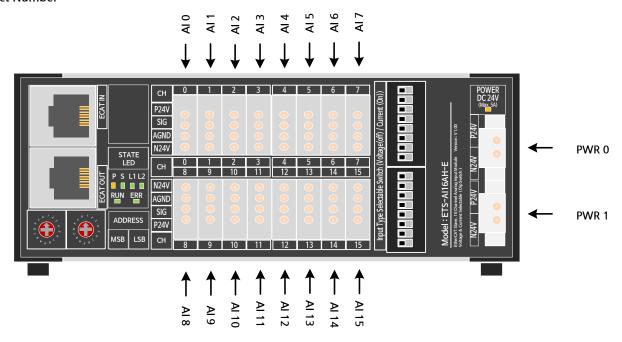


Connector

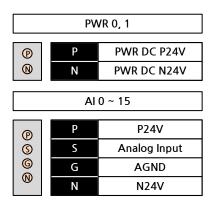
■ RJ45 Connector



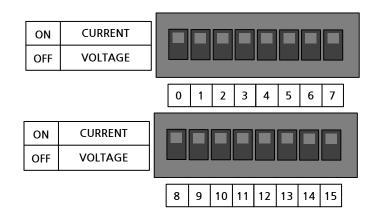
■ Contact Number



■ PIN MAP

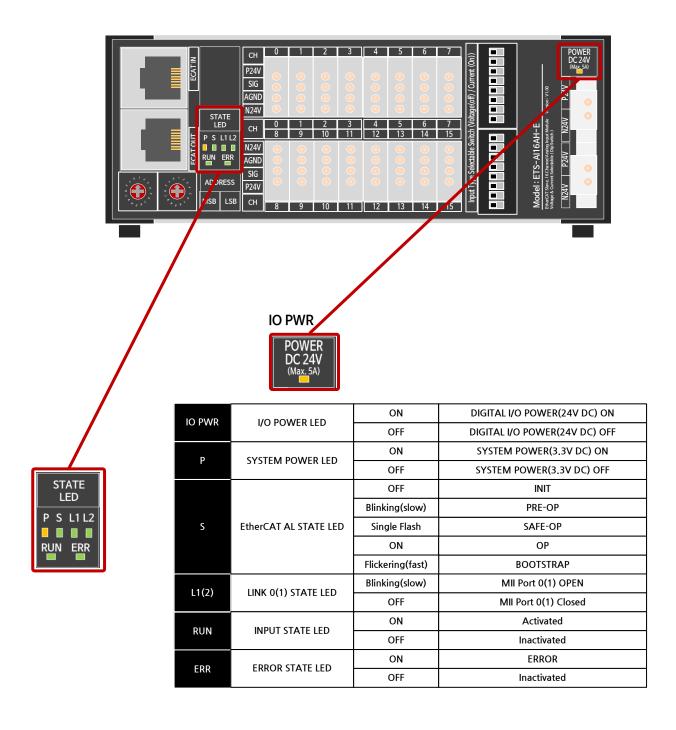


■ SWITCH



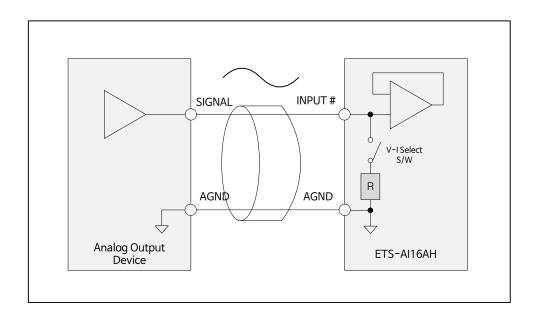


Status LED





Circuit Diagram (Analog Input)





Hardware Reference Manual Update List

No.	Version	Date	Changes in
1	1.00	2019.05.08	First Edition

TEST & MEASUREMENT & AUTOMATION / COMIZOA

ETS Reference Manual

Copyright holder: COMIZOA CO.,LTD. Copyright (c) by COMIZOA CO.,LTD. All right reserved. 2019. 05. 08.



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

All the details including figures and programs included in this manual is protected by Korean Copyright. Any parts of this manual can be copied or distributed without COMIZOA's permission.