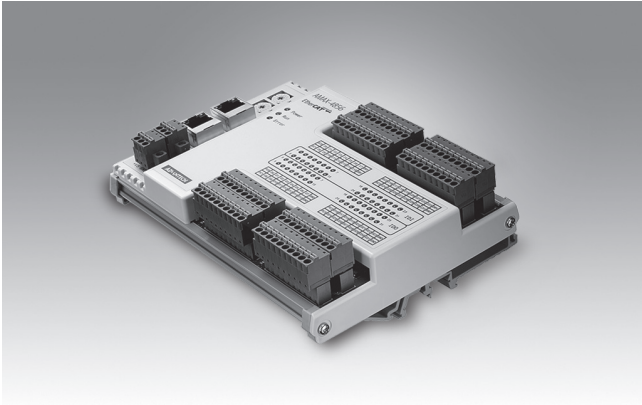


AMAX-4856

AMAX-4862

32-ch Isolated Digital Input and 32-ch Isolated Digital Output EtherCAT Remote I/O Module

16-ch IDI & 16-ch Relay EtherCAT Remote I/O module



AMAX-4856



Features

- Suitable for EtherCAT networks
- 32-ch digital input and 32-ch digital output with 2,500 VDC isolation
- Wide input voltage range (10 ~ 30 VDC)
- Wide output voltage range (5 ~ 40 VDC) and high output current (350 mA/ch)
- Quick removable European type connector
- LED indicators for I/O status
- Supports EtherCAT Distributed Clock (DC) mode and SyncManager mode
- Two Rotary switches for up to 256 SubDevice IDs

Introduction

The AMAX-4856 is an industrial EtherCAT SubDevice module equipped with the EtherCAT protocol. Its compact size and DIN-rail mount kit can install easily in a cabinet. Euro type pluggable terminal blocks and LED indicator help users to maintain and set up their system. All digital input and digital output channels are protected by 2,500 V_{DC} isolation circuits.

Specifications

Communication

- **Interface** EtherCAT
- **Data transfer medium** Ethernet/EtherCAT cable (min. CAT 5), shielded
- **Distance between modules** Max. 100 m (100BASE-TX)
- **Data transfer rates** 100 Mbps
- **Configuration** Not required
- **Communication Cycle Time** 100us

Digital Input

- **Response time** 20us
- **Channels** 32
- **Input voltage** Logic 0: 3 V max.; Logic 1: 10 V min. (30 V max.)
- **Isolation protection** 2,500 V_{DC}

Digital Output

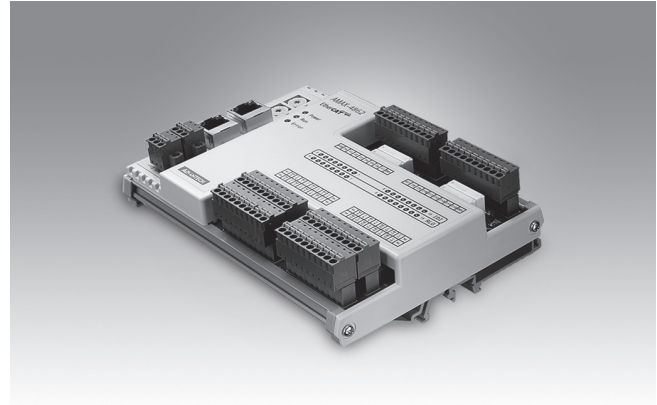
- **Channels** 32
- **Load voltage** 5 ~ 40 V_{DC}
- **Load current** 350mA/ch (sink) @ 25°C; 250mA/ch (sink) @ 60°C
- **Isolation protection** 2,500 V_{DC}
- **Opto-isolator Response Time** 100us

General

- **Connectors** 10-pin 3.81 mm terminal block * 8 (I/O)
3-pin 3.81 mm screw terminal block (power)
RJ-45 * 2 (EtherCAT)
UL 94V-0 Housing
- **Case Material** UL 94V-0 Housing
- **Dimensions** 168 mm x 120 mm x 40 mm
- **Operating temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Storage temperature** -40 ~ 70°C (-40 ~ 158°F)
- **Storage humidity** 5 ~ 95% RH (non-condensing)
- **Power supply** 10 ~ 30 V_{DC}
- **Power Consumption** Typical 85mA @24V; Max. 130mA @24V

Ordering Information

- **AMAX-4856-B** 32-ch Isolated Digital Input and 32-ch Isolated Digital Output EtherCAT Remote I/O Module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V



AMAX-4862



Features

- Suitable for EtherCAT networks
- 16-ch Isolated Digital Input and 16-ch Form A-type Relay Output
- High-voltage isolation on input channel (2,500 VDC)
- Quick removable European type connector
- LED indicators for I/O status
- Supports EtherCAT Distributed Clock (DC) mode and SyncManager mode
- Two Rotary switches for up to 256 SubDevice IDs

Introduction

The AMAX-4862 is an industrial EtherCAT SubDevice module equipped with the EtherCAT protocol. Its compact size and DIN-rail mount kit can install easily in a cabinet. Euro type pluggable terminal blocks and LED indicator help users to maintain and set up their system. All digital input channels are protected by 2,500 V_{DC} isolation circuits.

Specifications

Communication

- **Interface** EtherCAT
- **Data transfer medium** Ethernet/EtherCAT cable (min. CAT 5), shielded
- **Distance between modules** Max. 100 m (100BASE-TX)
- **Data transfer rates** 100 Mbps
- **Configuration** Not required
- **Communication Cycle Time** 100us

Digital Input

- **Response time** 20us
- **Channels** 16
- **Input voltage** Logic 0: 3 V max.; Logic 1: 10 V min. (30 V max.)
- **Isolation protection** 2,500 V_{DC}

Relay Output

- **Channels** 16
- **Relay Type** Form A
- **Contact Rating (resistive)** 2A @ 250 V_{AC}, 2A @ 30 V_{DC}
- **Max. Switching Power** 500VA, 60W
- **Max. Switching Voltage** 270V AC, 125 V_{DC}
- **Resistance** 30mΩ max.
- **Operating Time** Max. 10ms
- **Releasing Time** Max. 5ms
- **Life Expectancy** Mechanical 2 x 10⁷ ops. at no load. Electrical 3 x 10⁴ ops. @2A/250V_{AC}

General

- **Connectors** 10-pin 3.81 mm terminal block * 6 (I/O)
3-pin 3.81 mm screw terminal block (power)
RJ-45 * 2 (EtherCAT)
UL 94V-0 Housing
- **Case Material** UL 94V-0 Housing
- **Dimensions** 168 mm x 120 mm x 40 mm
- **Operating temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Storage temperature** -40 ~ 70°C (-40 ~ 158°F)
- **Storage humidity** 5 ~ 95% RH (non-condensing)
- **Power supply** 10 ~ 30 V_{DC}
- **Power Consumption** Typical 85mA @24V; Max. 130mA @24V

Ordering Information

- **AMAX-4862-B** 16-ch IDI & 16-ch Relay EtherCAT Remote I/O module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V