

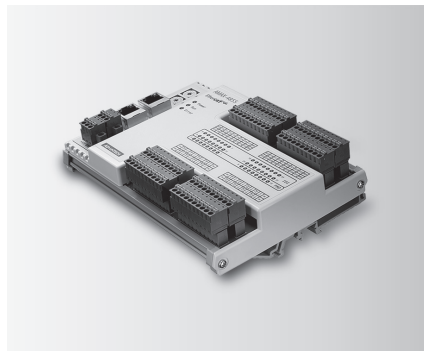
AMAX-4855

AMAX-4856

AMAX-4862

32-ch IDI & 16-ch PhotoMOS EtherCAT Remote I/O module
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-4855



Features

- Suitable for EtherCAT networks
- 32-ch digital input and 16-ch PhotoMOS Relay output (Form A)
- 1500 V_{DC} optical isolation for relay outputs
- 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 slave IDs

Introduction

The AMAX-4855 is an industrial EtherCAT slave 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 PhotoMOS Relay Output channels are protected by 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** 100µs

Digital Input

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

PhotoMOS Relay Output

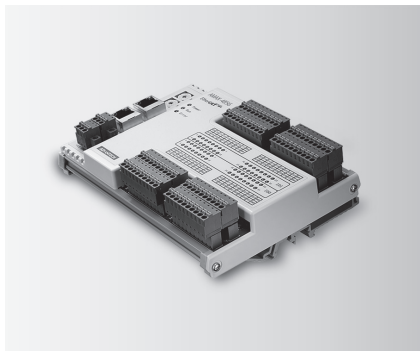
- **Channels** 16
- **Relay type** PhotoMOS SPST(Form A)
- **Load Voltage** 60V (AC peak or DC)
- **Load current** 1.2A
- **Peak load current** 4A @100ms(1 pulse)
- **Isolation protection** 1,500 V_{DC}
- **Turn-on time** 1 ms typical
- **Turn-off time** 0.6 ms typical

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)
- **Dimensions** 168 mm x 120 mm x 40 mm
- **Operating temperature** -20 ~ 60°C (32 ~ 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-4855-AE** 32-ch IDI & 16-ch PhotoMOS EtherCAT Remote I/O module
- **96PS-A40WDIN** DIN RAIL A/D 100-240V 40W 24V



AMAX-4856



Features

- Suitable for EtherCAT networks
- 32-ch digital input and 32-ch digital output with 2,500 V_{DC} isolation
- Wide input voltage range (10 ~ 30 V_{DC})
- Wide output voltage range (5 ~ 40 V_{DC}) 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 slave IDs

Introduction

The AMAX-4856 is an industrial EtherCAT slave 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** 100µs

Digital Input

- **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

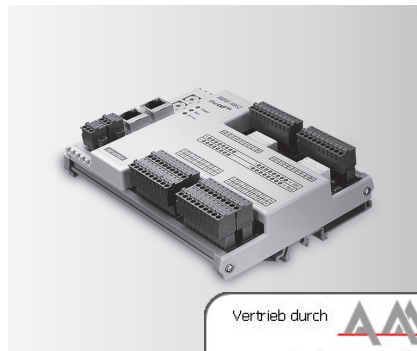
- **Channels** 32
- **Load voltage** 5 ~ 40 V_{DC}
- **Load current** 350mA/ch (sink) @ 25°C
250mA/ch (sink) @ 60°C
- **Isolation protection** 2,500 V_{DC}
- **Opto-isolator Response Time** 100µs

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)
- **Dimensions** 168 mm x 120 mm x 40 mm
- **Operating temperature** -20 ~ 60°C (32 ~ 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-AE** 32-ch Isolated Digital Input and 32-ch Isolated Digital Output EtherCAT Remote I/O Module
- **96PS-A40WDIN** DIN RAIL A/D 100-240V 40W 24V



AMAX-4862

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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 V_{DC})
- 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 slave IDs

Introduction

The AMAX-4862 is an industrial EtherCAT slave 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** 100µs

Digital Input

- **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 10⁶ 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)
- **Dimensions** 168 mm x 120 mm x 40 mm
- **Operating temperature** -20 ~ 60°C (32 ~ 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-AE** 16-ch IDI & 16-ch Relay EtherCAT Remote I/O module
- **96PS-A40WDIN** DIN RAIL A/D 100-240V 40W 24V