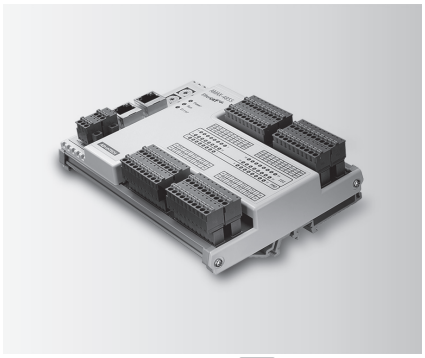
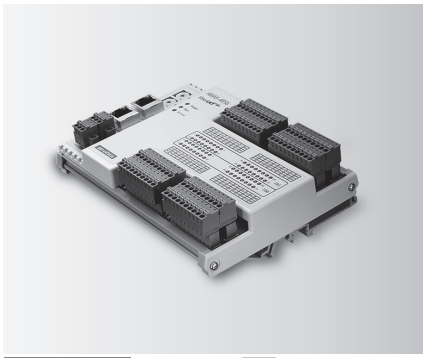
AMAX-4855
AMAX-4856
AMAX-4862

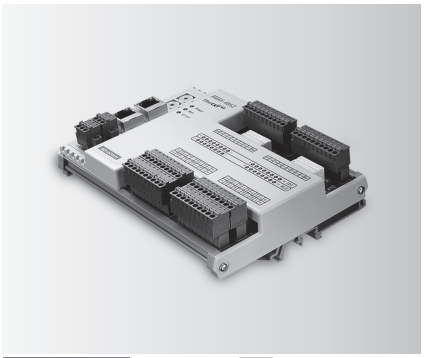
32-ch IDI & 16-ch PhotoMOS EtherCAT Remote I/O module
32-ch Isolated Digital Input and 32-ch Isolated Digital Output EtherCAT Remote I/O Module
16-ch IDI & 16-ch Relay EtherCAT Remote I/O module



AMAX-4855



AMAX-4856



AMAX-4862

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	100us

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 (-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-4855-AE	32-ch IDI & 16-ch PhotoMOS EtherCAT Remote I/O module
96PSD-A40W24-MM	DIN RAIL A/D 100-240V 40W 24V

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

Interfac	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

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)
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-AE	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

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	100us

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 10^7 ops. at no load. Electrical 3 x 10^4 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 (-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-AE	16-ch IDI & 16-ch Relay EtherCAT Remote I/O module
96PSD-A40W24-MM	DIN RAIL A/D 100-240V 40W 24V

All product specifications are subject to change without notice.

Last updated: 4-Jan-2022