

AMAX-4830/SO

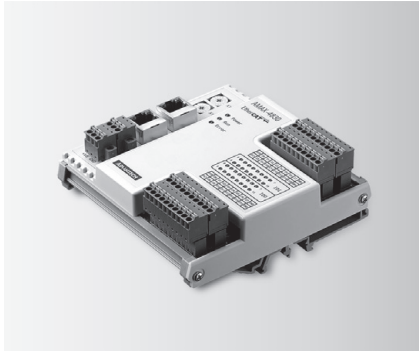
AMAX-4833

AMAX-4834

16-ch Isolated Digital Input and 16-ch Isolated Digital Output EtherCAT Remote I/O Module

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

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



AMAX-4830/SO

Features

- Suitable for EtherCAT networks
- 16-ch digital input and 16-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 SubDevice IDs

Introduction

The AMAX-4830/SO 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.

Specifications

Communication

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

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}

Digital Output

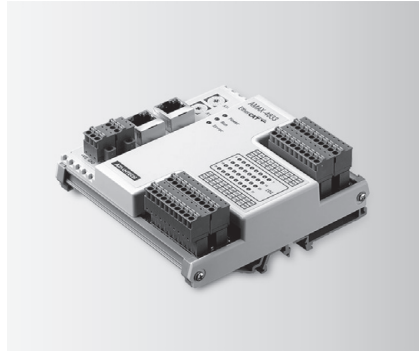
▪ Channels	16
▪ Load voltage	5 ~ 40 V _{DC}
▪ Load current	AMAX-4830: 250mA/ch (Sink) @ 60°C AMAX-4830SO: 250mA/ch (Source) @ 25°C 200mA/ch (Source) @ 60°C
▪ Isolation protection	2,500 V _{DC}
▪ Opto-isolator Response Time	100us

General

▪ Connectors	10-pin 3.81 mm terminal block * 4 (I/O) 3-pin 3.81 mm screw terminal block (power) RJ-45 * 2 (EtherCAT)
▪ Dimensions	120 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. 110mA @24V

Ordering Information

▪ AMAX-4830-B	16-ch isolated digital input and 16-ch isolated digital output EtherCAT remote I/O module
▪ AMAX-4830SO-B	16-ch isolated DI and 16-ch isolated source type DO EtherCAT remote I/O module
▪ 96PSD-A40W24-MM	DIN RAIL A/D 100-240V 40W 24V



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- Supports EtherCAT Distributed Clock (DC) mode and SyncManager mode
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Specifications

Communication

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▪ Distance between modules	Max. 100 m (100BASE-TX)
▪ Data transfer rates	100 Mbps
▪ Configuration	Not required
▪ Communication Cycle Time	100us

Digital Input

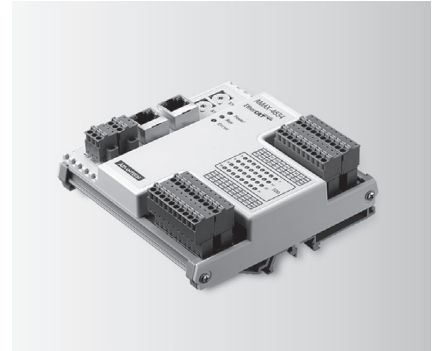
▪ Response time	20us
▪ Channels	32
▪ Input voltage	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)
▪ Isolation protection	2,500 V _{DC}

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▪ Power Consumption	Typical 85mA @24V; Max. 110mA @24V

Ordering Information

▪ AMAX-4833-B	32-ch isolated digital input EtherCAT remote I/O module
▪ 96PSD-A40W24-MM	DIN RAIL A/D 100-240V 40W 24V



AMAX-4834

Features

- Suitable for EtherCAT networks
- 32-ch digital output with 2,500 V_{DC} isolation
- 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 SubDevice IDs

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▪ Distance between modules	Max. 100 m (100BASE-TX)
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▪ Configuration	Not required
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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

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