

# AMAX-4830/SO

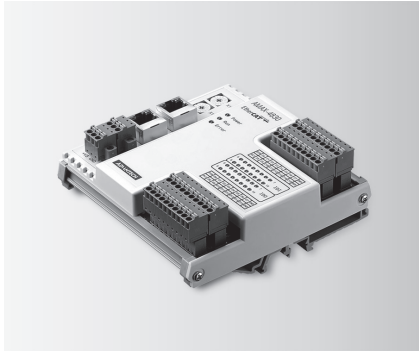
## AMAX-4833

## 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<sub>DC</sub> isolation
- Wide input voltage range (10 ~ 30 V<sub>DC</sub>)
- Wide output voltage range (5 ~ 40 V<sub>DC</sub>) 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-4830/SO 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.

#### 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	100µs
• Data transfer rates	100 Mbps
• Configuration	Not required

##### Digital Input

• Channels	16
• Input voltage	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)
• Isolation protection	2,500 V <sub>DC</sub>

##### Digital Output

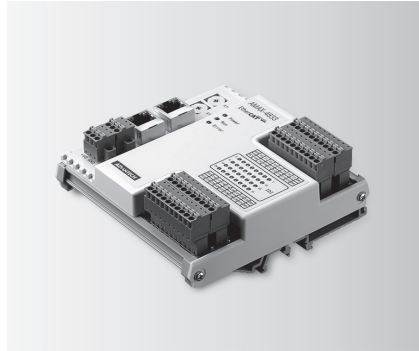
• Channels	16
• Load voltage	5 ~ 40 V <sub>DC</sub>
• Load current	AMAX-4830: 350mA/ch (Sink) @ 25°C 250mA/ch (Sink) @ 60°C AMAX-4830SO: 250mA/ch (Source) @ 25°C 200mA/ch (Source) @ 60°C
• Isolation protection	2,500 V <sub>DC</sub>
• Opto-isolator Response Time	100µs

##### 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 (32 ~ 140°F)
• Storage temperature	-40 ~ 70°C (-40 ~ 158°F)
• Storage humidity	5 ~ 95% RH (non-condensing)
• Power supply	10 ~ 30 V <sub>DC</sub>
• Power Consumption	Typical 85mA @24V; Max. 110mA @24V

#### Ordering Information

- **AMAX-4830-AE** 16-ch isolated digital input and 16-ch isolated digital output EtherCAT remote I/O module
- **AMAX-4830SO-AE** 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



AMAX-4833



#### Features

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#### 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

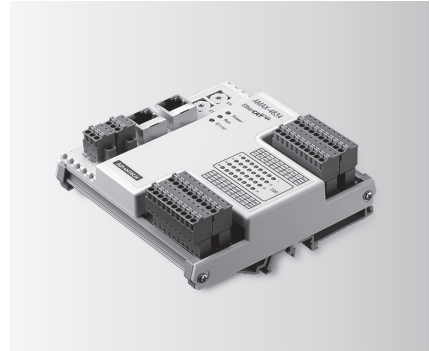
• Channels	32
• Input voltage	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)
• Isolation protection	2,500 V <sub>DC</sub>

##### 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)
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#### Ordering Information

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



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#### Features

- Suitable for EtherCAT networks
- 32-ch digital output with 2,500 V<sub>DC</sub> isolation
- Wide output voltage range (5 ~ 40 V<sub>DC</sub>) 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

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#### 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 Output

• Channels	32
• Load voltage	5 ~ 40 V <sub>DC</sub>
• Load current	350mA/ch (sink) @ 25°C 250mA/ch (sink) @ 60°C
• Isolation protection	2,500 V <sub>DC</sub>
• Opto-isolator Response Time	100µs

##### 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)
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• Power supply	10 ~ 30 V <sub>DC</sub>
• Power Consumption	Typical 85mA @24V; Max. 110mA @24V

#### Ordering Information

- **AMAX-4834-AE** 32-ch isolated digital output EtherCAT remote I/O module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V

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