

# AMAX-4830/SO

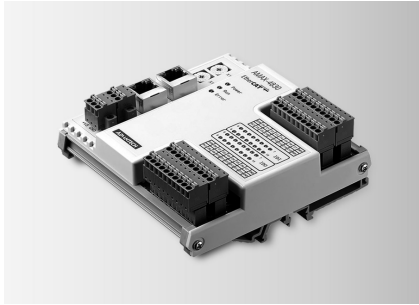
# AMAX-4833

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## 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 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<sub>DC</sub> isolation.

### Specifications

#### Communication

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

#### Digital Input

▪ <b>Response time</b>	20µs
▪ <b>Channels</b>	16
▪ <b>Input voltage</b>	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)
▪ <b>Isolation protection</b>	2,500 V <sub>DC</sub>

#### Digital Output

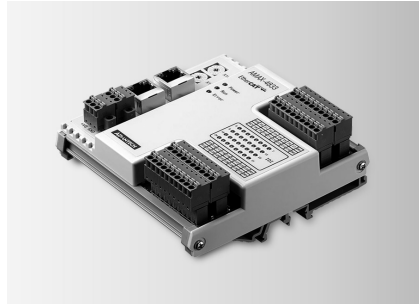
▪ <b>Channels</b>	16
▪ <b>Load voltage</b>	5 ~ 40 V <sub>DC</sub>
▪ <b>Load current</b>	AMAX-4830: Sink: 350mA/ch@25°C, 250mA/ch@60°C AMAX-4830SO: Source: 250mA/ch@25°C, 200mA/ch@60°C
▪ <b>Isolation protection</b>	2,500 V <sub>DC</sub>
▪ <b>Opto-isolator Response Time</b>	100µs

#### General

▪ <b>Connectors</b>	10-pin 3.81 mm terminal block * 4 (I/O) 3-pin 3.81 mm screw terminal block (power) RJ-45 * 2 (EtherCAT)
▪ <b>Case Material</b>	UL 94V-0 Housing
▪ <b>Dimensions</b>	120 mm x 120 mm x 40 mm
▪ <b>Operating temperature</b>	-20 ~ 60°C (-4 ~ 140°F)
▪ <b>Storage temperature</b>	-40 ~ 70°C (-40 ~ 158°F)
▪ <b>Storage humidity</b>	5 ~ 95% RH (non-condensing)
▪ <b>Power supply</b>	10 ~ 30 V <sub>DC</sub>
▪ <b>Power Consumption</b>	Typical 85mA @24V; Max. 110mA @24V

### Ordering Information

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



AMAX-4833



### Features

- Suitable for EtherCAT networks
- 32-ch digital input with 2,500 V<sub>DC</sub> isolation
- Wide input voltage range (10 ~ 30 V<sub>DC</sub>)
- 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-4833 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<sub>DC</sub> isolation.

### Specifications

#### Communication

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

#### Digital Input

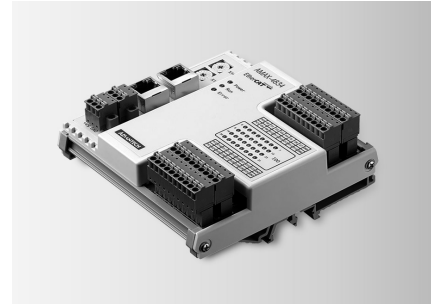
▪ <b>Response time</b>	20µs
▪ <b>Channels</b>	32
▪ <b>Input voltage</b>	Logic 0: 3 V max. Logic 1: 10 V min. (30 V max.)
▪ <b>Isolation protection</b>	2,500 V <sub>DC</sub>

#### General

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### Ordering Information

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▪ <b>Configuration</b>	Not required
▪ <b>Communication Cycle Time</b>	100µs

#### Digital Output

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

#### General

▪ <b>Connectors</b>	10-pin 3.81 mm terminal block * 4 (I/O) 3-pin 3.81 mm screw terminal block (power) RJ-45 * 2 (EtherCAT) UL 94V-0 Housing
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