

# AMAX-4830/SO

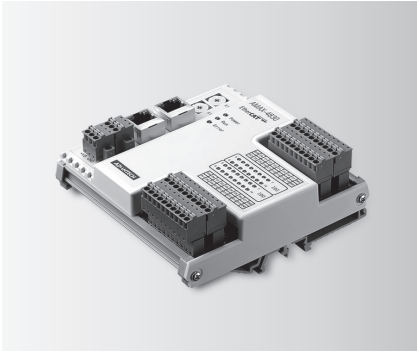
## AMAX-4833

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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 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 | 100us                                          |
| Data transfer rates      | 100 Mbps                                       |
| Configuration            | Not required                                   |

### Digital Input

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

### Digital Output

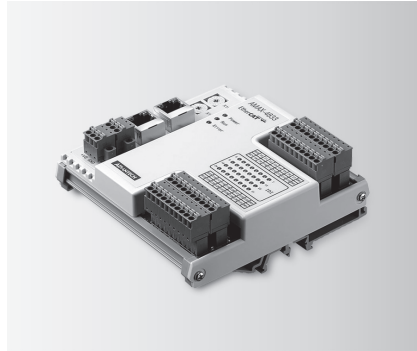
|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|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

### General

|                       |                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------|
| Connectors            | 10-pin 3.81 mm terminal block * 4 (I/O)<br>3-pin 3.81 mm screw terminal block (power)<br>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;<br>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

- 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 slave IDs

## Introduction

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## Specifications

### Communication

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| 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

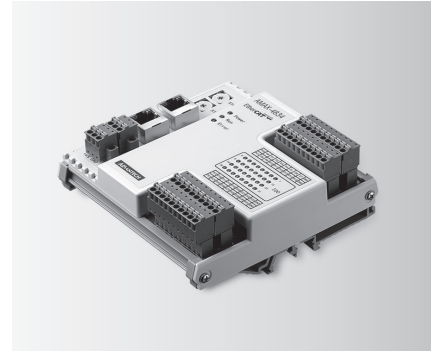
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| Channels             | 32                                                  |
| Input voltage        | Logic 0: 3 V max.<br>Logic 1: 10 V min. (30 V max.) |
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| 96PSD-A40W24-MM | DIN RAIL A/D 100-240V 40W 24V                           |



AMAX-4834



## Features

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| Opto-isolator Response Time | 100us                                            |

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| 96PSD-A40W24-MM | DIN RAIL A/D 100-240V 40W 24V                            |

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