

# AMAX-4830

# AMAX-4833

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

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AMAX-4830



### 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 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** 200us
- **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

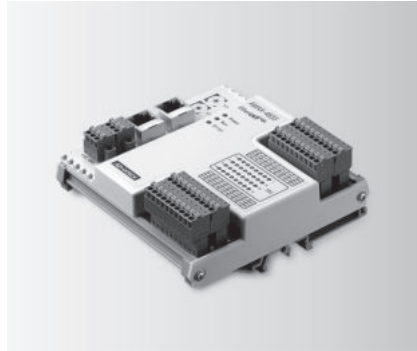
- **Channels** 16
- **Load voltage** 5 ~ 40 V<sub>DC</sub>
- **Load current** 350mA/ch (sink) @ 25°C  
250mA/ch (sink) @ 60°C
- **Isolation protection** 2,500 V<sub>DC</sub>
- **Opto-isolator Response Time** 100us

#### General

- **Connectors** 10-pin 3.81 mm terminal block \* 4 (I/O)  
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
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V



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- 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
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