# AMAX-4817 AMAX-4820

#### 8-Channel, 16-Bit Isolated Analog Input EtherCAT Remote I/O Module

4-Channel, 16-Bit Isolated Analog Output EtherCAT Remote I/O Module



#### AMAX-4817

#### **Features**

- Suitable for EtherCAT networks
- 8 x 16-bit analog input channels with 2,500 Vpc isolation
- Wide common-mode voltage range (±275 V)
- Removable European-type connector
- Supports EtherCAT distributed clocks (DC) mode and SyncManager mode
- 2 x Rotating switches that support up to 256 slave IDs

## Introduction

AMAX-4817 is an industrial-grade remote I/O slave module equipped with the EtherCAT protocol. European-type pluggable terminal blocks facilitate module setup and maintenance, while the compact size and support for DIN-rail mounting ensure easy installation in cabinet configurations. For safe and reliable operation, all of the 8 analog input channels are protected by a 2,500 V<sub>DC</sub> isolation circuit.

EtherCAT

100 Mbns

16 bits

< +0.1%

2,500 VDC

0 ~ 10 V, ±10 V

Max. 100 m (100BASE-TX)

## **Specifications**

#### Communication

- Interface
- Data Transfer Medium Distance Between Modules
- Communication Cycle Time
- Data Transfer Bates

#### **Analog Input**

- Channels
- Resolution
- **Input Voltage Range**
- Common-Mode Voltage Range ±275 V
- Measurement Error
- **Isolation Protection Conversion Time**

40 µs for all channels Note: Because the analog sampling rate exceeds the communication cycle time, the maximum polling rate will be limited by the communication cycle time = 10 kS/s for each channel.

-20 ~ 60 °C (32 ~ 140 °F) -40 ~ 70 °C (-40 ~ 158 °F)

10 ~ 30 V<sub>DC</sub>

5~95% RH (non-condensing)

#### General

- Connectors
- Dimensions
- **Operating Temperature**
- Storage Temperature
- Storage Humidity
- **Power Supply**
- Power Consumption

### **Ordering Information**

- AMAX-4817-AE
- 96PSD-A40W24-MM
- 8-ch, 16-bit isolated AI EtherCAT remote I/O module DIN rail A/D 100 ~ 240 V, 40 W, 24 V

Typical 160 mA @24 V; Max. 190 mA @24 V

## 

#### **Features**

AMAX-4820

- . Suitable for EtherCAT networks
- 4 x 16-bit analog output channels with 2,500 Vpc isolation
- Multiple voltage and current output ranges
- Removable European-type connector
- Supports EtherCAT distributed clocks (DC) mode and SyncManager mode
- 2 x Rotating switches that support up to 256 slave IDs

## Introduction

AMAX-4820 is an industrial-grade remote I/O slave module equipped with the EtherCAT protocol. European-type pluggable terminal blocks facilitate module setup and maintenance, while the compact size and support for DIN-rail mounting ensure easy installation in cabinet configurations. For safe and reliable operation, all of the 4 analog output channels are protected by a 2,500 V<sub>DC</sub> isolation circuit.

## **Specifications**

#### Communication

- Interface
- EtherCAT Data Transfer Medium Ethernet/EtherCAT cable (min. CAT 5), shielded
- Distance Between Modules Max. 100 m (100BASE-TX)

16 bits

Communication Cycle Time 100 µs (guarantees all channel data are updated) Data Transfer Bates 100 Mbps

0 ~ 5 V, 0 ~ 10 V, ±5 V, ±10 V 0 ~ 20 mA, 4 ~ 20 mA

1 x 10-pin terminal block (I/O), 3.81 mm

1 x 3-pin screw terminal block (power), 3.81 mm

> 1 k $\Omega$  (voltage output)

 $< 625 \Omega$  (current output)

#### Analog Output

- Channels
- Resolution

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- **Output Voltage Range**
- **Output Current Range**
- Load
- **Output Error** 
  - $< \pm 0.1\%$ **Isolation Protection** 2,500 VDC
- **Conversion Time** 40 µs for all channels
- General
- Connectors
- Dimensions
- Operating Temperature Storage Temperature
- Storage Humidity **Power Supply**
- Power Consumption

# **Ordering Information**

- AMAX-4820-AE
- AD\ANTECH Intelligent Motion Control and Machine Vision

All product specifications are subject to change without notice.

DIN rail A/D 100 ~ 240 V, 40 W, 24 V

-20 × 120 × 40 mm (4.72 × 4.72 × 1.57 in) -20 ~ 60 °C (32 ~ 140 °F) -40 ~ 70 °C (-40 ~ 158 °F) 5 ~ 95% RH (non-condensing) 10 ~ 30 Vpc

2 x RJ-45 (EtherCAT)

Typical 160 mA @24 V; Max. 190 mA @24 V

4-ch, 16-bit isolated AO EtherCAT remote I/O module

96PSD-A40W24-MM

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2 x 10-pin terminal block (I/O), 3.81 mm 1 x 3-pin screw terminal block (power), 3.81 mm 2 x RJ-45 (EtherCAT) 120 x 120 x 40 mm (4.72 x 4.72 x 1.57 in)

Ethernet/EtherCAT cable (min. CAT 5), shielded

100 µs (guarantees all channel data are updated)

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