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

AMAX-4820

Features

- Suitable for EtherCAT networks
- 8 x 16-bit analog input channels with 2,500 V_{DC} 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 SubDevice IDs

Introduction

AMAX-4817 is an industrial-grade remote I/O SubDevice 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_{DC} isolation circuit.

Specifications

Communication

- Interface
- Data Transfer Medium **Distance Between Modules**
- **Communication Cycle Time**
- Data Transfer Rates

Analog Input

- Channels
- Resolution
- Input Range
- Common-Mode Voltage Range
- Measurement Error **Isolation Protection**
- Bandwidth(-3dB)
- Conversion Time
- 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.

General

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

Ordering Information

- AMAX-4817-B
- 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

Features

- •
- Suitable for EtherCAT networks 4×16 -bit analog output channels with 2,500 V_{DC} 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 SubDevice IDs

Introduction

AMAX-4820 is an industrial-grade remote I/O SubDevice 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_{DC} isolation circuit.

Specifications

Communication

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

16 bits

< ±0.1%

2.500 Vpr

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

0 ~ 5 V, 0 ~ 10 V, ±5 V, ±10 V

0 ~ 20 mA, 4 ~ 20 mA

Analog Output

- Channels
- Resolution

.

- **Output Voltage Bange**
- **Output Current Range** Load
 - $> 1 k\Omega$ (voltage output) $< 625 \Omega$ (current output)
- **Output Error**
 - **Isolation Protection** Conversion Time
 - 40 µs for all channels
- General
- Connectors
- Dimensions
- Operating Temperature
- Storage Temperature
- -20 ~ 60 °C (-4 ~ 140 °F) -40 ~ 70 °C (-40 ~ 158 °F) Storage Humidity 5 ~ 95% RH (non-condensing) **Power Supply**
- 10 ~ 30 Vpc **Power Consumption** Typical 160 mA @24 V; Max. 190 mA @24 V

Ordering Information

- AMAX-4820-B
 - 96PSD-A40W24-MM
- 4-ch, 16-bit isolated AO EtherCAT remote I/O module DIN rail A/D 100 ~ 240 V, 40 W, 24 V

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

120 x 120 x 40 mm (4.72 x 4.72 x 1.57 in)

1 x 3-pin screw terminal block (power), 3.81 mm 2 x RJ-45 (EtherCAT)

All product specifications are subject to change without notice.

ROHS CEFCC

2 x 10-pin terminal block (I/O), 3.81 mm 1 x 3-pin screw terminal block (power), 3.81 mm 2 x R.I-45 (EtherCAT) 120 x 120 x 40 mm (4.72 x 4.72 x 1.57 in) -20 ~ 60 °C (-4 ~ 140 °F) -40 ~ 70 °C (-40 ~ 158 °F) 5 ~ 95% RH (non-condensing) 10 ~ 30 Vpr Typical 160 mA @24 V; Max. 190 mA @24 V

8 16 bits

- 0 ~ 10V. ±10V. 0~20mA. ±20mA

Ethernet/EtherCAT cable (min. CAT 5), shielded Max. 100 m (100BASE-TX)

100 µs (guarantees all channel data are updated)

- 2,500 VDC
- <±0.1% 1.375KHz/ch

±275 V

FtherCAT

100 Mbps

40 us for all channels