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





ROHS CEFCC AMAX-4820



- Suitable for EtherCAT networks
- 4 x 16-bit analog cutrut channels with 2,500 V_{DC} isolation
- Multiple voltage and current output ranges
- Removable Eu. per 1-type connector
- Supports FtherCAT distributed clocks (DC) mode and SyncManager mode
- 2 x no ting switches that support up to 256 SubDevice IDs

!n\roduction

A 'AX-4820 is an industrial-grade remote I/O SubDevice module equipped with the cherCAT 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.

Introduction AMAY-4817 is an industria

AMAX-4817

Features

Suitable for EtherCAT networks

8 x 16-bit analog input channels with 2,500 V_{DC} isolation

• 2 x Rotating switches that support up to 256 SubDevice IDs

Supports EtherCAT distributed clocks (DC) mode and SyncManager mode

Wide common-mode voltage range (±275 V)

· Removable European-type connector

AMAX-4817 is an industrial-grade remote I/O SubDevice module equipped with the EtherCAT protocol. European-type pluggable terminal blocks facilitate module ϵ , a and maintenance, while the compact size and support for DIN-rail mounting ensure as ν installation in cabinet configurations. For safe and reliable operation, all ν in the 8 malog input channels are protected by a 2,500 V_{DC} isolation circuit.

Specifications

Communication

■ Interface EtherCAT
■ Data Transfer Medium Ethernet/EtherCAT to ble (min CAT 5), shielded
■ Distance Between Modules Max. 100 m (100BASL TY)

Communication Cycle Time

Data Transfer Rates

100 Mbs.

100 µs (gua.a * tees all channel data are updated)

Analog Input

Channels 8
Resolution 16 bits

Input Range 0 ~ 10V, ±10V, 0~20mA, ±20mA

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 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)

Dimensions 120 x 120 x 40 mm (4.72 x 4.72 x 1 Operating Temperature -20 ~ 60 °C (-4 ~ 140 °F) Storage Temperature -40 ~ 70 °C (-40 ~ 158 °F)

Storage lemperature -40 ~ 70 °C (-40 ~ 158 °F) • Storage Humidity 5 ~ 95% RH (non-condensing) • Power Supply 10 ~ 30 Vnc

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

Ordering Information

AMAX-4817-B96PSD-A40W24-MM

8-ch, 16-bit isolated AI EtherCAT remote I/O module DIN rail A/D 100 \sim 240 V, 40 W, 24 V

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 100 µs (guarantees all channel data are updated)

Data Transfer Rates

100 Mbns

Analog Output

Channels 4 Resolution 4 16 bits

 Output Voltage Range
 0 ~ 5 V, 0 ~ 10 V, ±5 V, ±10 V

 Output Current Range
 0 ~ 20 mA, 4 ~ 20 mA

 Load
 > 1 kΩ (voltage output)

 Output Error
 < ±5.0 (current output)</th>

 Output Error
 < ±0.1 %</th>

 Isolation Protection
 2,500 Vpc

 Conversion Time
 40 µs for all channels

General

Connectors

1 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)

Power Supply $10 \sim 30 \text{ V}_{DC}$ Typical 160 mA @24 V; Max. 190 mA @24 V

Ordering Information

AMAX-4820-B96PSD-A40W24-MM

4-ch, 16-bit isolated AO EtherCAT remote I/O module DIN rail A/D 100 \sim 240 V, 40 W, 24 V

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