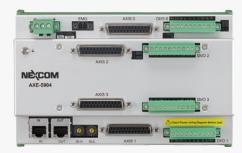
AXE-5904





Main Features

- 4-axis independent control and pulse output up to 8Mpps
- Pulse output options: CW/ CCW, OUT/DIR
- 4x differential encoder interface, ABZ phase

- EtherCAT slave protocol communication
- Support CiA 402 device profile
- General purpose I/O: 12 DI and 3 DO

Product Overview

AXE-5904 is a 4-axis pulse type point-to-point motion EtherCAT slave module, featuring real-time EtherCAT communication and CiA 402 device profile for machine automation applications requiring high-speed and point-to-points function. With pulse type commands, AXE-5904 supports pulse output rate up to 4MHz and encoder input up to 8MHz in 4 xAB phase mode and build-in dedicated I/O points for servo control and mechanism to facilitate building up whole machines.

Specifications

Pulse Type Motion Control

- Number of axes: 4
- Pulse output rate: up to 8pps
- Pulse command output: CW/ CCW, OUT/DIR, ABZ Phase
- Committed I/O Signal: ±LIM/±CMP/ORG/SVON/RDY/INP/ALM/ ALMCLR/DCLR for each axis

Encoder Input

- Encoder input type: Incremental, 32-bit
- Encoder signal: CW/ CCW, AB/Z
- Positioning Range: -2,147,483,648 through 2,147,483,647 pulse (32-bit)
- Max. input frequency: 4MHz

General I/O

- General-purpose input: 3 channel per axis
- Input type: photo-coupler input (corresponding to current sink output)
- Response time of DI (Max.): 100 µsec
- General-purpose output: 2 channel per axis
- Response time of DO (Max.): 100 µsec

Power Requirements

+ DC input range: DC 24V $\pm 10\%$ with over-voltage and reversed-voltage protection

Common Section

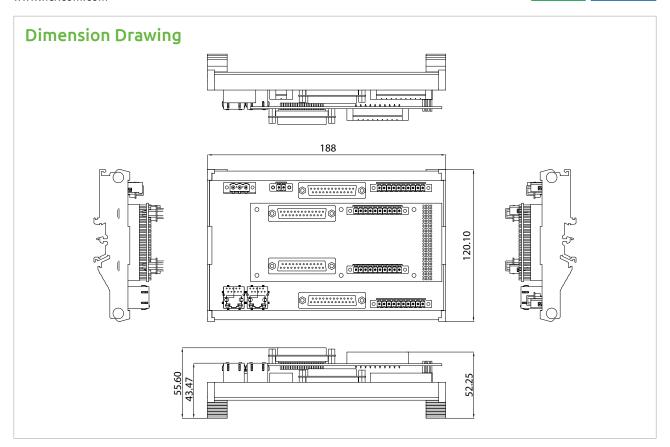
- Data transfer medium: Ethernet cable (min CAT 5), shield
- Bus interface: 2x RJ-45
- Data transfer rate: 100M baud
- Protocol: EtherCAT
- Device profile: CiA 402
- Operating temperature: 0°C to 50°C
- Relative humidity:
- 35~85%, non-condensation, operating
- 10~90%, non-condensation, non-operating
- Shock: IEC 60068 2-27
- Vibration: IEC 60068 2-64
- Enclosure type rating: IP00
- Mounting type: DIN-rail
- Dimension (mm): 120.1(W) x 188(L) x 55.6(H)

Certifications

- CE
- FCC Class A

Machine Automation





Ordering Information

Motion Controller

• AXE-5904 (P/N: TBD)

Point-to-point 4-axis pulse type motion EtherCAT Slave Module

NE:COM