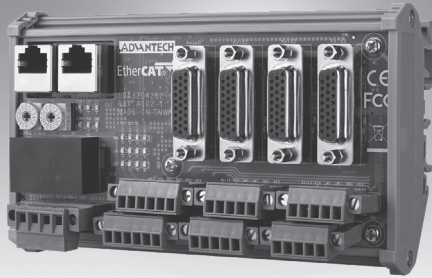


# AMAX-3245C

## 4-axis EtherCAT Motion Module with CiA402 device profile

NEW



### Features

- Max. 5 MHz, 4-axis pulse output
- Encoder input is 10 MHz for 4xAB mode, 2.5 MHz for CW/CCW mode
- BoardID is switchable
- Easily visible LED indicators on board to do diagnosis
- Direct wire to servo drive to save terminal board space while installation
- Horizontal installation for servo or stepping motor driver
- EtherCAT CiA402 device profile CSP, HM
- Supports COE/FOE
- Supports PDO/SDO
- General purpose I/O: 4DI/4DO

### Introduction

AMAX-3245C is a 4-axis pulse train EtherCAT motion module, it features real-time EtherCAT communication with CiA402 device profile, supporting CSP and home mode.

AMAX-3245C provides the ability to connect step motor drives and servo motor drives with CW/CCW, Pulse/Direction and A/B phase interfaces to EtherCAT networks controlled.

AMAX-3245C has open frame designs for horizontal placement and an interface connector mounted on the board. With a to-servo-drive transfer cable, it can be conveniently connected to such as Mitsubishi, Yaskawa and Panasonic servos.

### Specifications

#### Pulse-Type Motion Control

- **Motor Driver Support** Pulse-type servo
- **Number of Axes** 4
- **Max. Output Speed** 5 Mpps
- **Pulse Out Count Range** -2,147,483,648 ~ 2,147,483,647
- **Pulse Output Type** Pulse/Direction (1-pulse, 1-direction type)  
CW/CCW (2-pulse type), AB phase
- **Pulse In Count Range** -2,147,483,648 ~ 2,147,483,647
- **Velocity Profiles** T-Curve, S-Curve
- **Local I/O**
  - General Input Signal
    - Rate input voltage: 24V<sub>DC</sub>
    - Input delay: 100us Max. (isolation delay)
    - Signal:
      - EMG (emergency stop)
      - ORG, LMT+, LMT-
      - INPOS (in position signal) ALARM (servo alarm)
  - General Output Signal
    - Rate output voltage: Open collect 24V<sub>DC</sub>
    - Output delay: 100us Max. (isolation delay)
    - Sink current: 500mA per channel
    - Signal:
      - SVON (servo on)
      - RALM (reset driver alarm)
      - ERC (counter clear signal)
  - General Purpose I/O: 4-ch DI/ and 4-ch DO

#### Encoder Interface

- **Input Type** A/B phase, CW/CCW
- **Counts per Enc. Cycle** x1, x2, x4 (AB phase only)
- **Input Range** Low: 0 ~ 0.5V High: 3.5 ~ 5V
- **Isolation Protection** 1,000 VRMS
- **Max. Input Frequency** 10 MHz @ 4xAB

#### General

- **Bus Type** EtherCAT CiA402 Device profile CSP, HM  
Support COE, FOE, SDO/PDO, DC (500us & 1ms)
- **Certification** CE, FCC Class A
- **Connectors** 2 x RJ-45 for communication port 1 x Terminal block (4P) for power  
4 x DB-26 connector by transfer cable to servo drives  
4 x Terminal block (5P) for home, Limit  
1 x Terminal block (6P) for 4DI 1 x Terminal block (6P) for 4DO
- **Dimensions (L x W x H)** 153 x 90 x 53 mm (6 x 3.5 x 2.2")
- **Power Consumption** 6W MAX (250mA @ 24V)
- **Power Input** 24V<sub>DC</sub> ± 10%
- **Humidity** 5 ~ 95% RH, non-condensing
- **Operating Temperature** 0 ~ 60°C (32 ~ 140°F)

### Ordering Information

- **AMAX-3245C-AE** EtherCAT Motion Module with CiA402 device profile

#### Accessories

- **PCL-20153PA5-S2E** 50-pin cable to Panasonic A4/A5 servo, 2 m
- **PCL-20153YS5-S2E** 50-pin cable to Yaskawa Sigma V/7 servo, 2 m
- **PCL-20153MJ3-S2E** 50-pin cable to Mitsubishi J3/J4 servo, 2 m
- **PCL-20153DA2-S2E** 50-pin cable to Delta A2 servo, 2 m