

AX-C Series Motion Controller

The AX-C series is a compact EtherCAT motion controller supporting up to 12 synchronized axes. Built on the CODESYS platform, it features built-in local I/O and expandable remote I/O, with Ethernet for device communication. It offers efficient program and motion control with superior performance, delivering an excellent user experience.



Product Introduction

Features

- All-in-one motion control solution:** Synchronizes up to 12 axes and offers an onboard EtherCAT master, dual Ethernet ports and a SD card slot. It also integrates RS-485 communication, a differential (encoder) input, 16 digital inputs (with 200kHz high speed counters*4) and 8 digital outputs (with 200kHz pulse-train outputs*4) in I/O interface to address basic control requirements
- Exceptional execution speed:** Utilizes a premium processor to achieve the execution speed of 1ns for basic LD instruction, ensuring speed and performance even when the control program gets larger
- Quick and easy expansion:** For I/O expansion, users can select from Delta's various EtherCAT remote I/O modules according to specific needs to build a customized system with the best configuration

Applications

Packaging, machine tools, food and beverages, woodworking, metalworking, lithium battery manufacturing, electronics assembly, and more

Product Specifications

	AX-C12EB
Motion Network	EtherCAT
Max. Real Axes	12 (+4 PTO)
Max. Total Axes (Real+Virtual)	12 (+4 PTO)
Execution Speed	1 ns for basic instructions
Program Capacity	128MB
Data Capacity	256MB
I/O Expansion	256 MB
Max. I/O	Supports remote I/O modules only. Max. 64 slaves
Built-in I/O	DI: 16 pts. (HSC x 4, 200 kHz), DO: 8 pts. (PTO x 4, 200 kHz)
Built-in Comm. Ports	EtherCAT x 1, Ethernet x 2, RS-485 x 1
Supported Protocols	EtherCAT, OPC UA (Server), Modbus, Modbus TCP, EtherNet/IP
Power Input	24 VDC

Dimensions

* You can search for more files in the [download center](#)

AX-C Series CPUs
AX-C12EB

