

# CPX-CMXX Multi-axis Module



## Motion Control with CPX

### The Multi-axis Module CPX-CMXX

This controller is an intelligent technology module for synchronous and coordinated motion solutions based on the Festo CPX architecture.

Supporting up to a total of 8 axes (2 groups of 4 axes), both individual axis movements and multi-axis synchronous / coordinated motion can be accomplished.

A variety of Festo drives are supported which makes this module an ideal choice for a range of simple handling solutions.

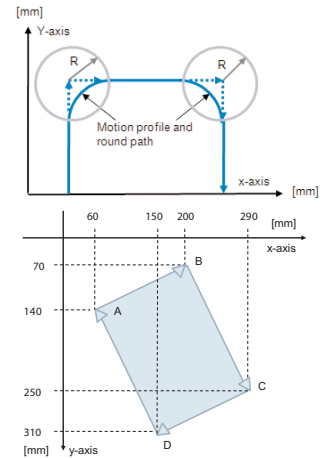
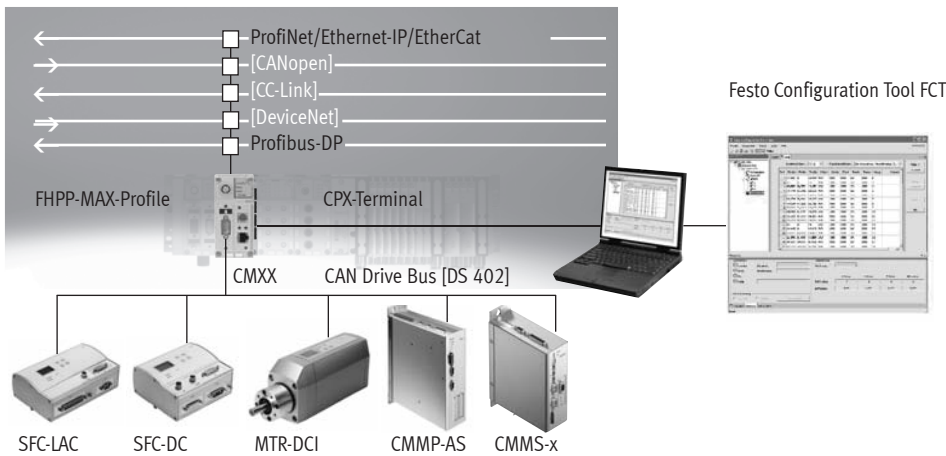
### Flexible Solutions

The CPX-CMXX module is ideal for applications involving multiple individual axes or simple cartesian kinematics (gantries). The CPX-CMXX can be part of a distributed architecture as a motion control module on a decentralized valve terminal node or as part of a standalone CPX controller when used together with the CPX-FEC (PLC module). Various CPX field bus nodes are supported allowing for connection to a wide variety of higher order PLCs & networks.

### Ease of Use and Reduced Engineering Time

The module is configured using the Festo configuration tool (FCT) which is a simple to use, easy to navigate, well illustrated configuration software. The module is highly configurable and involves no programming, making system setup very simple and quick. Linking of motion profiles (sequencing of position set records) as well as synchronous motion of multiple axes (controlling each axes so that they reach the destination simultaneously) are both functionalities available with the CPX-CMXX module. These functionalities off-load the higher order PLC / controller from the motion tasks as well as reduces programming.

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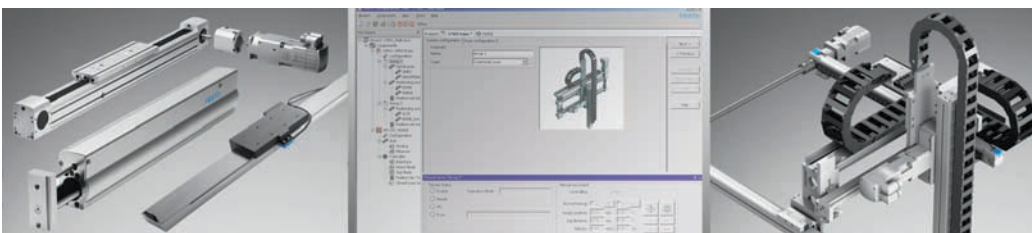
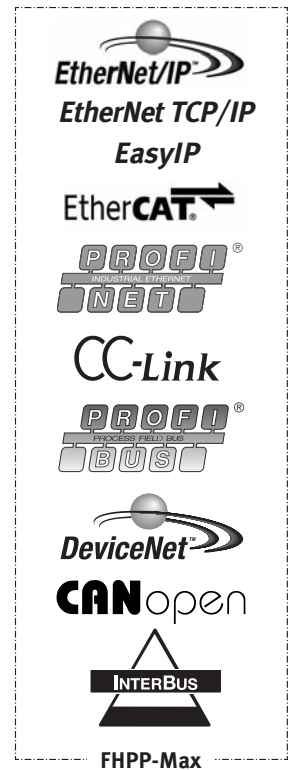
## Summary of User Benefits:

- Compact multi axis motion solution for both stand alone systems and decentralized solutions.
- Connectivity via a variety of field buses – Interfaces to a wide range of PLCs
- Connectivity to a variety of Festo drives – Offers many creative handling solutions.
- Simple & quick implementation – Module does not require programming, simply configure and parameterize.
- Position set table & linking functionality reduces PLC programming.
- Synchronous / coordinated motion control capability off-loads the motion tasks from the PLC.

## General technical data CPX-CMXX

Total number of axes	8	
Distribution of axes	2 groups with max. 4 axes	
Supported kinematic systems	2 -axis gantries (X-Z / Y-Z / X-Y) 3-axis gantries (X-Y-Z) Up to 4 independent synchronous axes (per group)	
Protocol	FHPP-Max	
Maximum address space for inputs/outputs (byte)	16 inputs / 16 outputs	
Number of position records	1024	
Configuration software	Festo Configuration Tool FCT	
Interface/connection	CAN bus interface (Sub-D) for connecting the drives Ethernet 10/100 BaseT (RJ45) for parameterization Service interface (M12) for connecting the CPX-MMI handheld	
Protection class	IP65/IP67	
Ordering data	Part No. 555667	Type: CPX-CMXX

## RoHS-compliant



Range of positioning technologies

Easy configuration

Flexible solutions

## Festo Corporation

For ordering assistance, or to find your nearest Festo Distributor,  
**Call:** 1.800.99.FESTO  
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