

## EtherCAT Products

Drives for EtherCAT Networks

**EtherCAT** 



### Product Features

- Stepper and StepSERVO drives with built-in EtherCAT communications
- EtherCAT network control using CANopen over EtherCAT (CoE) adhering to CiA 402
- Support for Profile Position, Profile Velocity, and Profile Torque (StepSERVO only) modes
- Support for Cyclic Synchronous Position (CSP) and Cyclic Synchronous Velocity (CSV) modes
- Support for multiple Homing modes
- Applied Motion Products-specific objects for running stored Q Programming segments



## Series Details

### Series Details:

Applied Motion Products offers the stepper and StepSERVO drives above with built-in EtherCAT network communications. EtherCAT is a popular and powerful standards-based industrial Ethernet protocol specifically designed for high-speed motion control and automation tasks.

Applied Motion drives with on-board EtherCAT – designated by “EC” in the model number – support CANopen over EtherCAT (CoE) operating modes including Profile Position, Profile Velocity, Profile Torque (StepSERVO only), Cyclic Synchronous Position (CSP), and Cyclic Synchronous Velocity (CSV). All drives support a range of Homing modes as well.

### Why EtherCAT?

EtherCAT is an Ethernet-based fieldbus system suitable for real-time communications requirements in automation technology. It provides short data update times and low communication jitter over a full-duplex Ethernet physical layer. All of this is to say that it's a high performance industrial Ethernet network for automation.

### Stored Program Execution

Applied Motion provides specific CANopen objects for executing Q programs stored in a drive's non-volatile memory. *IMPORTANT: Note that stored Q programs in an EtherCAT drive can only be accessed via the EtherCAT network by request from the master controller. These drives cannot run Q programs stand-alone.*

### Master Controllers

EtherCAT networks are controlled by a master controller and there are numerous suppliers. We offer support documentation to assist users in connecting to several of the more popular controllers. Visit the [EtherCAT Master Controllers](#) page for more details.

## Products in the Series *EtherCAT Products*

Title	Type	Description	1pc.
<a href="#">SS03-EC-D</a>	StepSERVO Drive	StepSERVO Drive with EtherCAT, 3 A	\$397.00
<a href="#">SS05-EC-D</a>	StepSERVO Drive	StepSERVO Drive with EtherCAT, 5 A	\$397.00
<a href="#">SS10-EC-D</a>	StepSERVO Drive	StepSERVO Drive with EtherCAT, 10 A	\$397.00
<a href="#">STF03</a>	Stepper Drive	DC Advanced Microstep Drive w/ Multi Fieldbus options	\$154.00
<a href="#">STF06</a>	Stepper Drive	DC Advanced Microstep Drive w/ Multi Fieldbus options	\$165.00
<a href="#">STF10</a>	Stepper Drive	DC Advanced Microstep Drive w/ Multi Fieldbus options	\$176.00