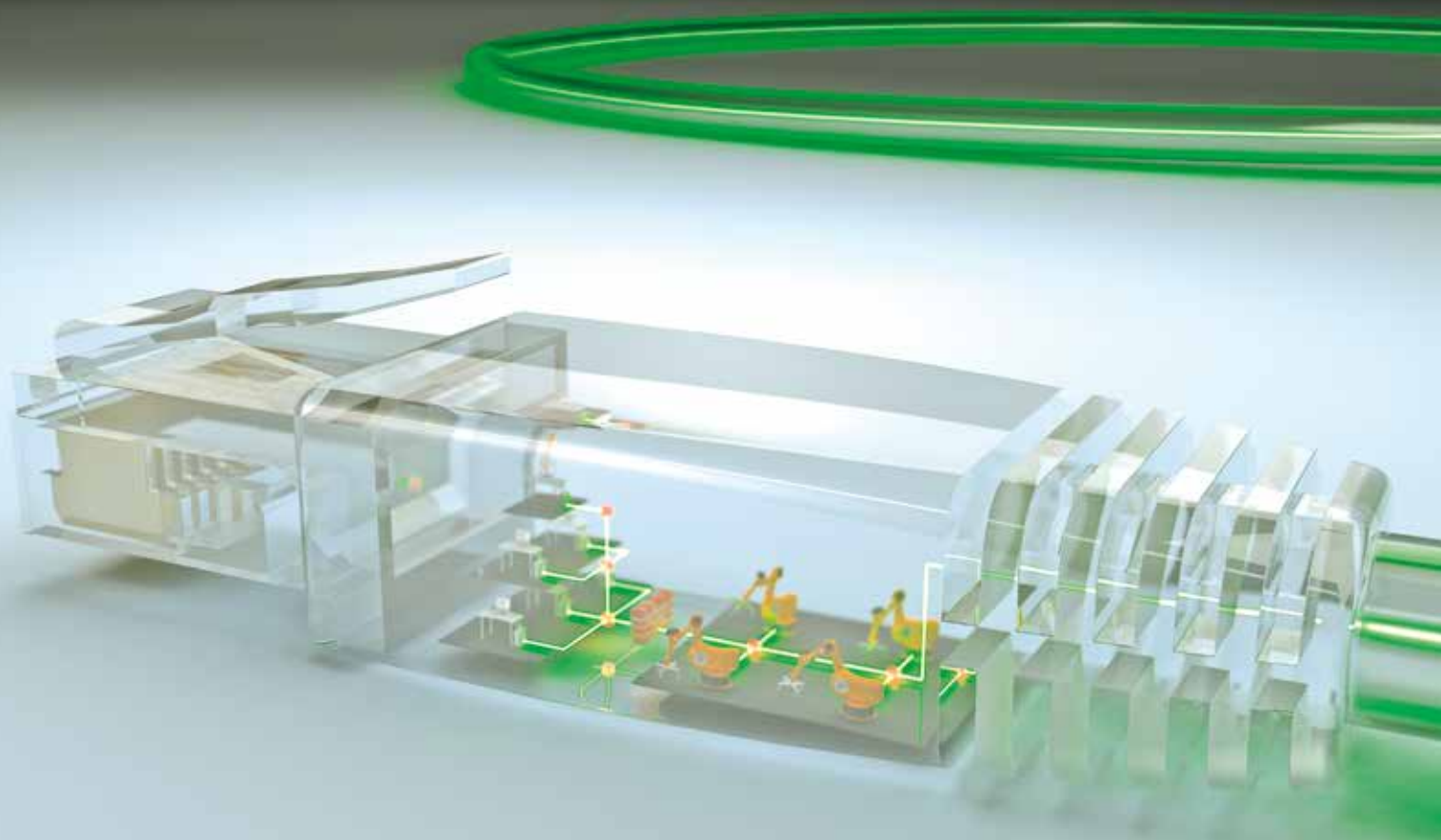


EtherCAT® and Motion Control

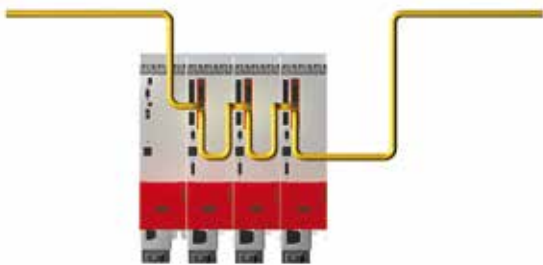
High-Speed Industrial ETHERNET



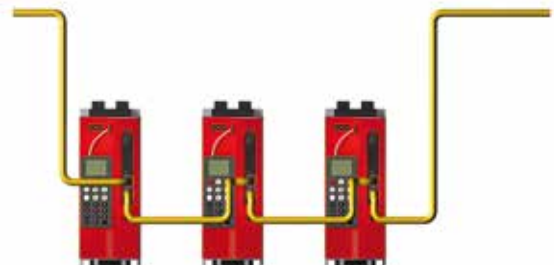
EtherCAT® and motion control – High-speed industrial ETHERNET

With the EtherCAT® interface modules FSE24B, DFE24B, XFE24A, and MFE72, drives from SEW-EURODRIVE can be connected to the EtherCAT® bus system, currently the fastest bus system on the market.

Fast – Faster – EtherCAT®



Applications with servo drive systems:
MOVIAXIS® multi-axis servo drive with XFE24A



Applications with
MOVIDRIVE® application inverter with DFE24B

With synchronization via distributed clock and a synchronization cycle of 0.5 to 10 ms, the hard realtime communication for MOVIDRIVE® inverters and MOVIAXIS® multi-axis servo inverters offers the following operating modes:

- High-performance motion control operation with centrally calculated motion functions and clock-synchronous speed, position or torque settings.
- Use of integrated motion control functions such as electronic cam, electronic gear unit, touchprobe, positioning, etc. through clock-synchronous control.
- Conventional PLC operation.

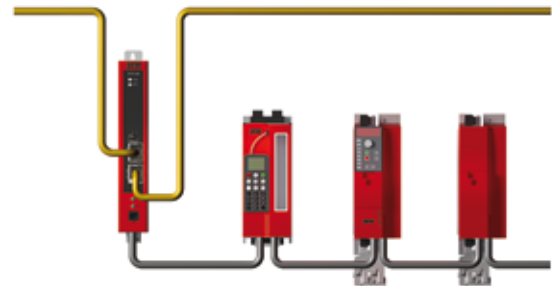
Overview of functions

	MOVIAXIS® multi-axis servo inverter	MOVIDRIVE® application inverter	MOVITRAC® standard inverter	Decentralized drive: MOVIMOT® gearmotor with frequency inverter and MFE72 field distributor	SEW-EURODRIVE drives via DFE24B gateway
Process data	16 words rx/tx with 16 bits each	8 words rx/tx with 32 bits each, and 10 words rx/tx with 16 bits each	3 words rx/tx with 16 bits each, and 10 words rx/tx with 16 bits each	4 words rx/tx with 16 bits each, and 10 words rx/tx with 16 bits each	3 words rx/tx with 16 bits each for up to 8 drives
Synchronization with distributed clock	0.5 – 10 ms	1 – 10 ms	No	No	No
Protocol	CoE (CAN application protocol over EtherCAT®)				
Engineering	Full engineering access for MOVITOOLS® MotionStudio via EtherCAT® master (mailbox gateway)				
Connection technology	2 RJ45 connectors for linear networking of drives				

Flexible – Versatile – EtherCAT®



Applications with MOVITRAC® frequency inverter with FSE24B



Applications with SEW-EURODRIVE drives connected via DFE24B gateway

Conventional PLC operation with non-synchronized process data (such as control and status values, speed or position setpoint and actual values) allows for controlling the application modules (positioning, modulo, winder, etc.) of the MOVIDRIVE® inverter. MOVITRAC® frequency inverters and all our other drives with SBus interface can be operated via EtherCAT® just as easily as via other fieldbus systems.

The mailbox gateway in the EtherCAT® master ensures unlimited engineering access, for example for MOVITOOLS® MotionStudio, down to the drive level.

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