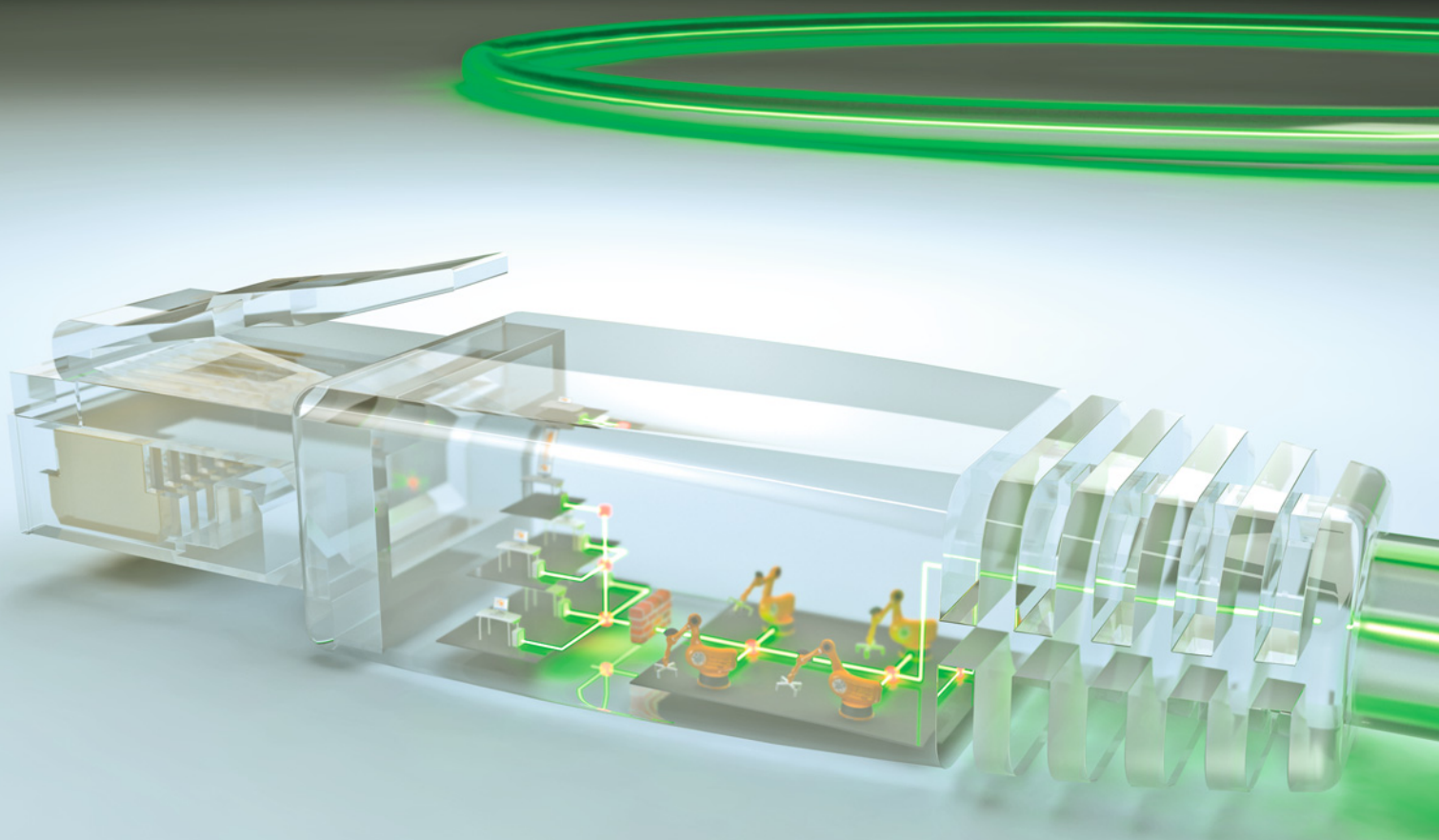


EtherCAT® and Motion Control

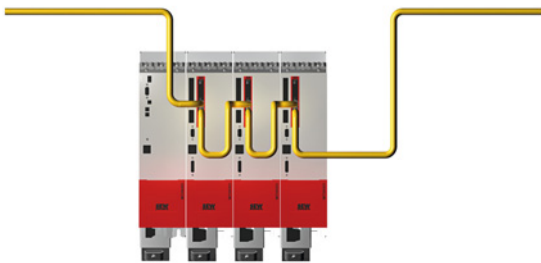
High-speed Industrial ETHERNET



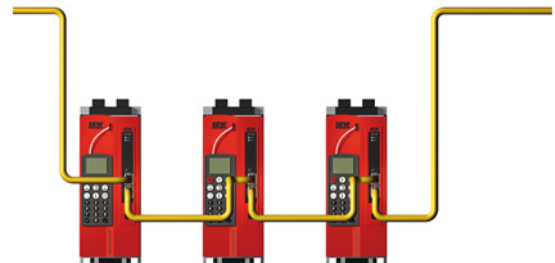
EtherCAT® and Motion Control – High-speed Industrial ETHERNET

With the EtherCAT® interface modules FSE24B, DFE24B and XFE24A, 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® drive inverter with DFE24B**

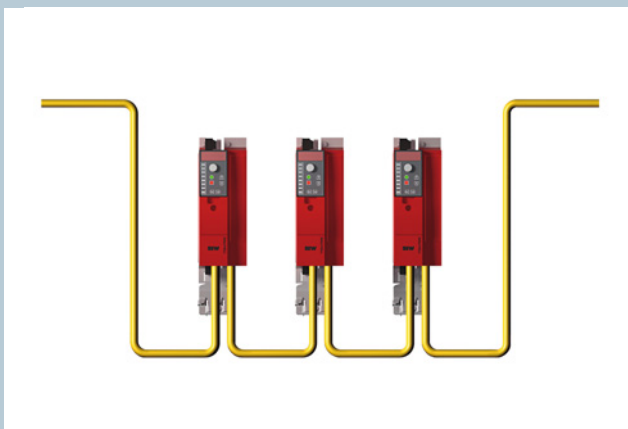
With synchronization via Distributed Clock and a synchronization cycle of 0.5 ... 10 ms, the hard realtime communcion for MOVIDRIVE® drive inverters and MOVIAXIS® multi-axis servo inverters allows for the following operating modes:

- 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, touch probe, positioning, etc. through clock-synchronous control
- Conventional PLC operation

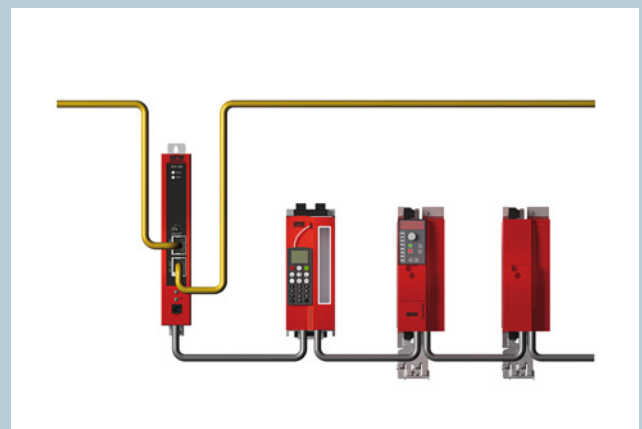
Overview of functions:

	MOVIAXIS® multi-axis servo inverter	MOVIDRIVE® drive inverter	MOVITRAC® frequency inverter	SEW drives via DFE24B gateway
Process data	16 words rx/tx with 16 bit each	8 words rx/tx with 32 bit each 10 words rx/tx with 16 bit each	10 words rx/tx with 16 bit each	3 words rx/tx with 16 bit each for up to 8 drives
Synchronization with Distributed Clock	0.5 ... 10 ms	1 ... 10 ms	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 drives connected via DFE24B gateway**

Conventional PLC operation with non-synchronized process data (such as control and status values, speed or position setpoint or actual values) allows for control of the application modules (positioning, modulo, winder, etc.) of the MOVIDRIVE® drive inverter. MOVITRAC® frequency inverters and all other SEW 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.

How we're driving the world



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Driving the world

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