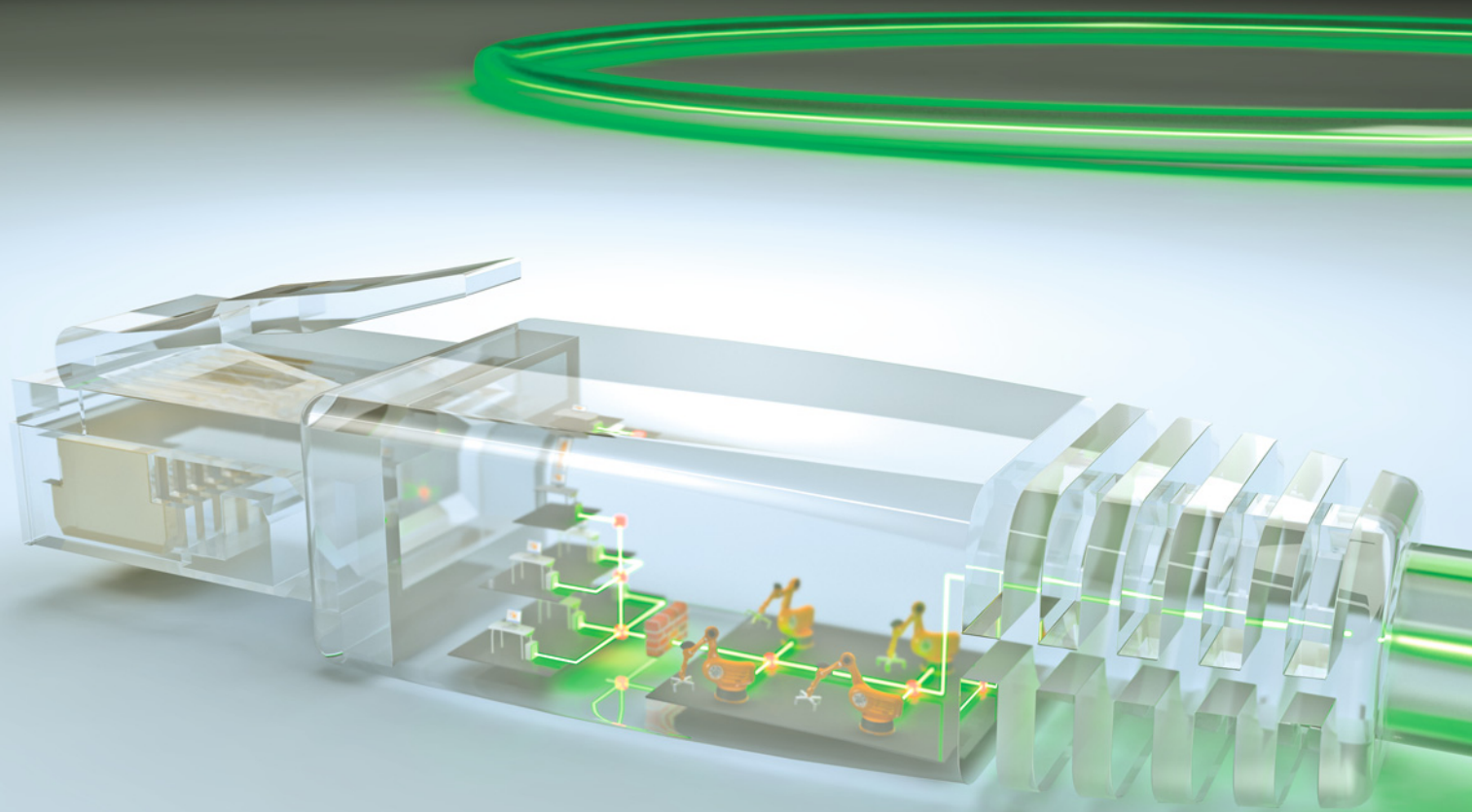


EtherCAT and Motion Control

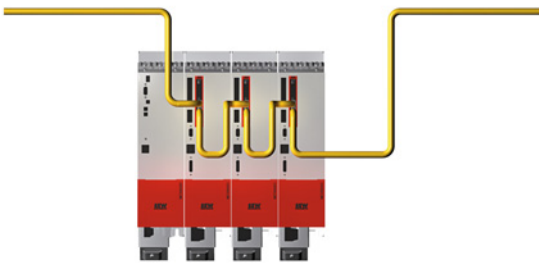
High-Speed Industrial ETHERNET



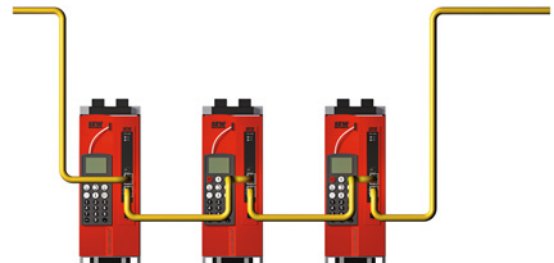
EtherCAT and Motion Control – High-Speed Industrial ETHERNET

With the EtherCAT interface modules 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 communication 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 and other SEW drives
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	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
Protocol	CoE (CANopen 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 DFE24B**



**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) not only allows for control of application modules (positioning, modulo, winder, etc.) in the MOVIDRIVE® drive inverter. It also enables MOVITRAC® frequency inverters and other SEW

drives with SBus interface to be used for simple drive tasks.

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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