ECX-EC
EtherCAT® Slave Bridge

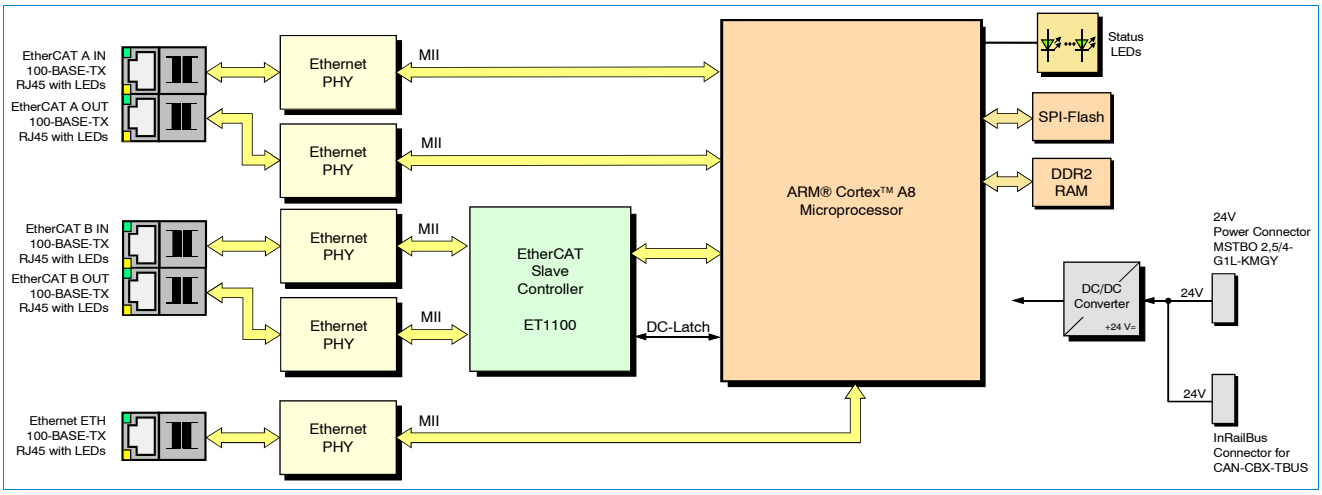
'Bridging two EtherCAT Slave Segments'
- Includes two EtherCAT slave devices
- Process data exchange between two EtherCAT networks
- Time synchronization (DC) between the EtherCAT Masters
- Supports DC with redundancy

EtherCAT Implementation
- Ethernet physics acc. to IEEE 802.3
- Configuration via CoE
- Firmware upgradable via FoE
- EoE support (Switch port)

EtherCAT Process Image widely configurable
- Configuration by typical network configuration tools (e.g. esd Workbench, TwinCAT®)
- Up to 1024 bytes in each direction
- Layout defined by variables, e.g. 'UDINT'

For synchronization of Distributed Clocks (DC) it offers the exact difference between the two slave timestamps as CoE object to allow one master adjusting its time to the other.
For DC synchronization in the redundancy case the ECX-EC bridge is used as first and last slave simultaneously, which allows the master to keep all slaves synchronized in both segments.

EtherCAT Slave Bridge
The ECX-EC connects two EtherCAT segments. Therefore the EtherCAT slave bridge implements two seperate EtherCAT slave interfaces for integration into two EtherCAT networks.
The bridge allows EtherCAT process data exchange between the networks.



Technical Specifications:

Microcontroller:	
CPU	*TI, AM3357 (Cortex™ A8)*
Memory	*DDR2-RAM: 64 MB* *Flash: 8 MB*
EtherCAT Slave (primary):	
Controller	*CPU internal PRU*
Interface	*2x RJ45, 100BASE-TX, IEEE 802.3*
EtherCAT Slave (secondary):	
Controller	*ET1100*
Interface	*2x RJ45, 100BASE-TX, IEEE 802.3*
Ethernet:	
Controller	*CPU internal EMAC*
Interface	*1x RJ45, 100BASE-TX, IEEE 802.3*

General:	
Supply voltage	*24 VDC ± 20%*
Nominal current	*100 mA @ 24 V*
Ambient temperature	*0 °C ... +55 °C*
Relative humidity	*Max. 90 % (non-condensing)*
Protection class	*IP20*
Dimensions	*22.5 mm x 99 mm x 114.5 mm*
Mounting	*DIN-EN carrier rail mounting*
Weight	*approx. 130 g*

Order Information:

Hardware		*Order No.*
ECX-EC	*ECX-EC EtherCAT Bridge for top-hat-rail mounting incl. CD with documentation and EtherCAT Workbench Trial Version*	*E.3022.02*

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