



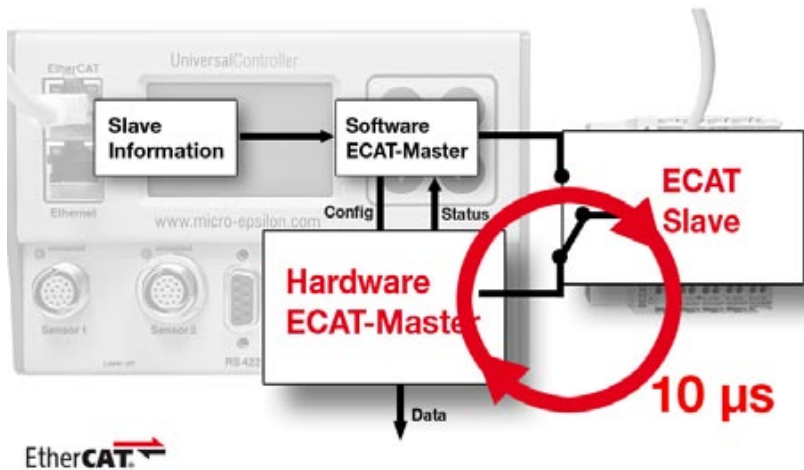
## EtherCAT Services

### Scope of services

- Development
- Production
  
- Software
- Hardware
  
- Master
- Slave

## dresden elektronik's EtherCAT services include

- user-specific development
- prototype and serial production up to 200,000 components per shift
- hardware for several targets:
  - microcontrollers (ARM, NIOSII, Infineon), FPGA (Xilinx, Altera)
- software: C++ for GNU, ARM and IAR
- software master without configurator
- hardware master for 10  $\mu$ s cycle time
- slave ET 1100 / 1200



Software master library for embedded systems and hardware master FPGA IP Core

## References of development and production services

- **Universal controller for extremely fast measurements**
  - 10  $\mu$ s cycle time for processing and transmission of measured signals via Hardware-EtherCAT-Master
- **Probe electronics for radiation-based measurement systems**
  - EtherCAT slave implementation for ARM7 controller
  - Simple circuit and PCB by using serial interfaces
- **EtherCAT master library for embedded systems**
  - Software-EtherCAT-Master as C++ library
  - No operating system necessary
  - No configurator and XML file transfer necessary
  - Interfaces to slave descriptions (tabular form) and standard Ethernet (MAC layer) are available
- **deSAC 4000 - Drive Controller with integrated safety functions**  
Controller system for safety operation of servo drives
  - EtherCAT slave
  - Real time periphery for actual position values and actuator setpoints
  - EtherCAT master to process interface equipment
  - Safety: DIN EN 61508, SIL3

## Branches

- Measurement technology
- Drive systems and components

## Contact

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