

EtherCAT Basics

Slave Structure

Device Model (ISO/OSI)

Physical Layer

Data Link Layer

Frame Structure

Addressing

Commands

Memory/Registers

SyncManager

FMMU

Diagnosis

Distributed Clocks

Application Layer

State Machine

Mailbox

Mailbox Interface

EoE Ethernet

CoE CANopen

FoE File Access

SoE Servo Drive

Slave Information /IF

Device Profiles

Modular Devices

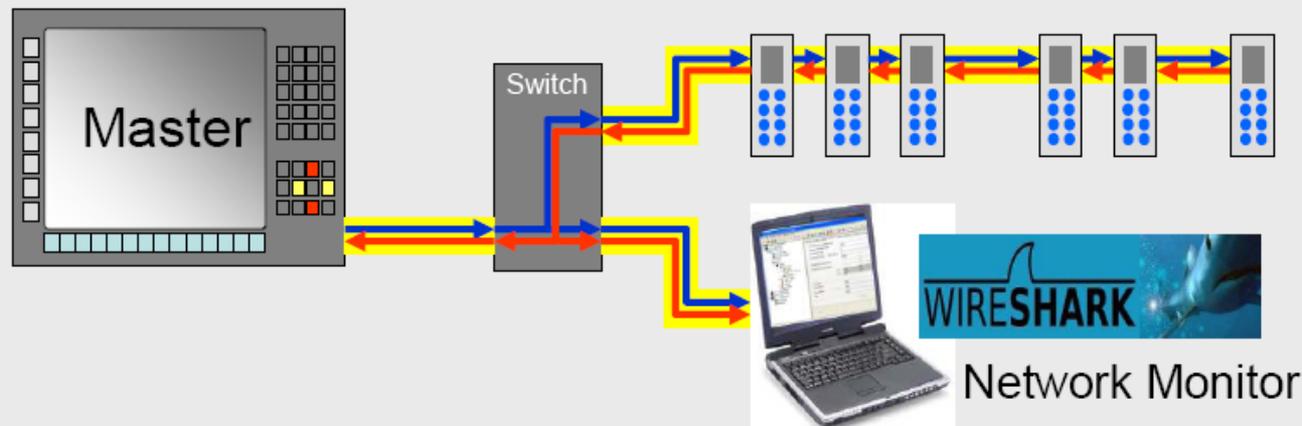
Drives

Device Description

Configuration Tool

EtherCAT Master

Standards&Implementation



- Masters sends an EtherCAT Frame (broadcast)
→ Monitor gets the first copy (unprocessed)
- Frame returns from EtherCAT Slave Devices
→ Monitor gets the second copy (processed)
- DLL for readable format available on EtherCAT Web site