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# HW Master

x EtherCAT

- ECAT XML Parser
  - XML Parser
- ECAT Network Configuration
  - GUI Network Configuration
  - XML Slave Device Description Import
  - XML Network Configuration Export
- ECAT Application Layer Features
  - FMMU Logical Memory Mapping
  - SDO(Service Data Object- )
  - PDO(Periodic Data Object- )
  - CoE(CAN over EtherCAT), FoE(FTP over EtherCAT)
  - DC(Distributed Clock)

- - 100Mbps
- - 0.1 ~ 50msec
  - 64 , 0.5msec
- - 1,500Bytes
  - 2 Core 1 3,000Bytes 가
- 가 Slave
  - 65,535
- - 100m
- Topology
  - Line Topology
  - Daisy Chain Topology
  - Daisy Chain with Branches Topology
  - Tree Structure Topology
  - Star Topology

- 가
  - Trapezoidal 가
  - S-Curve 가
  - 가
  -
- - 32
  - 
  - 8
  - 4
  - 32 가 가
  - 가
- (Listed Motion)
  - (Listed Motion) :
  - 32 Kbytes
  -
- - (Round)
  - (Soft Landing)
  - (Slip) / (Backlash)
  - 
  - Triangular Speed
  - 100us PID

- - Max 64
- - Max 32
- - Max 8
- -
- Command Position
  - 32 (-2,147,483,684 ~ 2,147,483,647)
- 가
  - 32 (32 )
- - 32Kbytes
- - 0.1 ~ 1msec

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