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## **HW Master**

× EtherCAT

```
• ECAT XML Parser
                      XML Parser
• ECAT Network Configuration
     GUI
                 Network Configuration
     \circ XML
                  Slave Device Description
                                               Import
     \circ 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
                                                        가
∘ 2 Core
                        3,000Bytes
 가
       Slave
      65,535
o 100m
Topology
Line Topology
Daisy Chain Topology

    Daisy Chain with Branches Topology

Tree Structure Topology
Star Topology
```

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

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Last update: 2024/07/08 18:22