Introduction

FastCAT IO is the head of rack system designed for mounting on a standard DIN-Rail with proprietary MTBus. The module is an EtherCAT slave which converts the passing telegram from EtherCAT to local bus MTBus; it can manage up to 16 I/O modules. The rotary switch allows to assign an ID to the coupler on the EtherCAT bus.
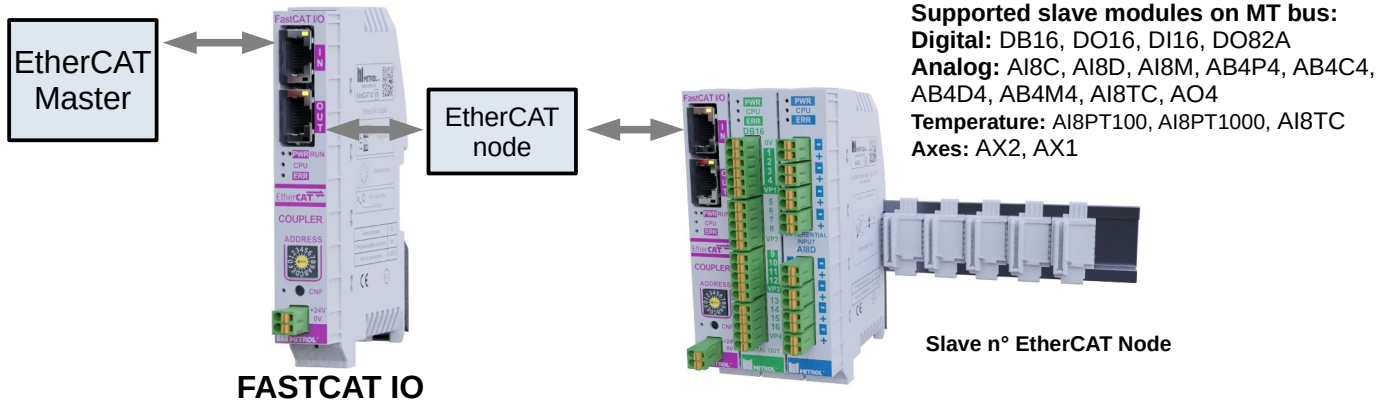
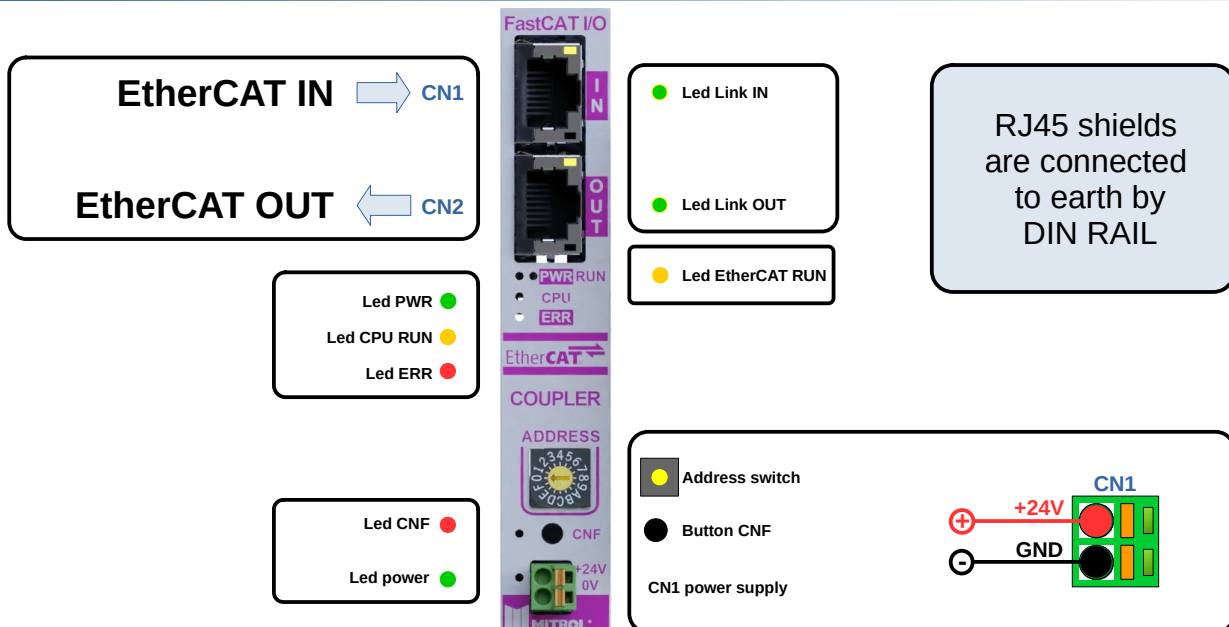The network is connected via the two RJ45 EtherCAT interface.

Hardware Specification

Feature	
Supply voltage	24Vdc typ (range 18..36V)
Fieldbus	EtherCAT
Addressing on fieldbus	Rotary switch
Local bus MTBus rate	Up to 10MHz
Data transfer medium / rate	EtherCAT cable min. Cat 5 shielded / 100Mbit
Distance between stations	Max. 100m
Bus interface	2 x RJ45
Electrical	
Electrical Isolation	1000Vrms
Power consumption Coupler	2W
Power consumption with 16 I/O modules	20W
Interface	Proprietary MTBus
Stripping length	8-9mm
Specification	EN 61131-2
Diagnostic leds	Power (green) CPU run (yellow) Error (red) EtherCAT run (yellow) Link IN (green) Link OUT (green) CNF (red) 24V (green)
Mechanical	
Dimensions [W x H x D]	19x120x93mm
Installation	On 35mm DIN-Rail
Enviroment	
Operating/storage temperature	0..55°C / -20..+85°C
Relative humidity	Max 95% without condensation
Degree of protection	IP20

Application

EtherCAT Master ⟷ **EtherCAT node** ⟷

FASTCAT IO

Slave n° EtherCAT Node

Supported slave modules on MT bus:
Digital: DB16, DO16, DI16, DO82A
Analog: AI8C, AI8D, AI8M, AB4P4, AB4C4, AB4D4, AB4M4, AI8TC, AO4
Temperature: AI8PT100, AI8PT1000, AI8TC
Axes: AX2, AX1

Pin Assignments

EtherCAT IN ⟹ **CN1**

EtherCAT OUT ⟸ **CN2**

Led PWR 🟢
Led CPU RUN 🟡
Led ERR 🔴

Led CNF 🔴
Led power 🟢

🟢 **Led Link IN**

🟢 **Led Link OUT**

🟡 **Led EtherCAT RUN**

RJ45 shields are connected to earth by DIN RAIL

🟡 **Address switch**

⚫ **Button CNF**

CN1 power supply

CN1
⊕ **+24V**
⊖ **GND**

Dimensions (Units: mm)

19

93

120