

# EtherCAT Junction Box



Molex EtherCAT Junction Boxes support flexible wiring configurations and mounting options in Line, Tree or Star topologies in a compact footprint, which allows our customers' EtherCAT systems to stay operational in the event of a machine error requiring a shutdown

## Features and Benefits

### Several LED Indicators

Allow operators to quickly assess box status and connection and activity of each port

### DIN-Rail or Vertical Screw Mount

Provides flexibility for automation system setup choices

### Three Rotary dials for Identification

(Not related to ECAT addressing)

### Low-profile M8 Power Connector

Industry-standard connection that takes up a minimal amount of space

### 8 or 12 Shielded RJ45 EtherCAT Ports

Shielded connection ensures optimal signal integrity and minimal interruption to your plant's vital automation processes

### A Unique, Compact Housing

Space-saving design provides mechanical integrity to ensure continuous functionality

### Durable Metal Enclosure

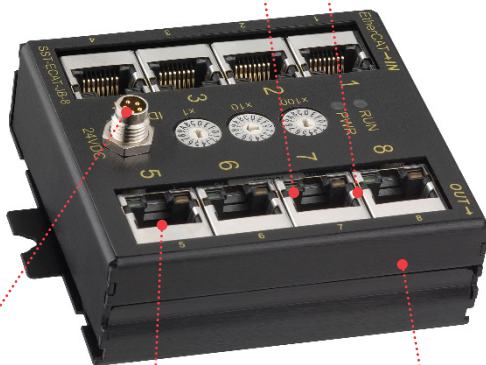
Helps enhance mechanical integrity for devices typically found in harsher, industrial environments



8-port EtherCAT Junction Box



12-port EtherCAT Junction Box



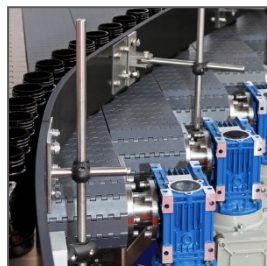
## Applications

### Machine Builders

- Compact machines
- CNC Machines
- Food Processing
- Filling and Bottling
- Plastic Injection

### Factory Automation

- Automotive
- Robot and Tool Makers
- Material Handling
- Packaging
- Automatic Guided Vehicle



Material Handling



Robot Cells

## Specifications

### CONNECTIVITY FUNCTIONS

Full duplex  
Auto negotiation  
Auto polarity  
100 Mbps port speed  
Hot connect

### ENVIRONMENTAL

Operating RH level: 5% to 95%, non-condensation  
Storage temperature: -40 to 85°C  
Operating temperature: 0 to 60°C

### PHYSICAL

Metal enclosure  
Shielded RJ45 connectors  
Link/activity LEDs  
Two status LED indicators: PWR and RUN  
3 rotary dials for identifying each device  
DIN-Rail mountable or screw-hole ready  
5-pin M8 connector for 24V DC  
Dimensions: 8-port: 80x75x25  
12-port: 113.3x75x25

### ELECTRICAL

Current consumption:  
8-port 200mA, 12-port 300mA @ 24V DC  
Voltage: 24V DC  
Weight: 8-port 160g, 12-port 220g

### REGULATORY APPROVALS

CE, FCC Part 15, RoHS, UL

## Ordering Information

Series No.	Engineering No.	Description
<a href="#">1203630001</a>	SST-ECAT-JB-8	8-Port EtherCAT Junction Box
<a href="#">1203630002</a>	SST-ECAT-JB-12	12-Port EtherCAT Junction Box