

IMP-GSB-M3 General Servo Bus Daughter Board (for Yaskawa MECHATROLINK III)

Features

- Support MECHATROLINK III protocol
- Built-in general servo bus
- Standard Ethernet physical layer transmission
- Multi axis synchronous control employed in communication cycle
- Use the dedicated ASIC for MECHATROLINK III
- Built-in error detection and retransmission mechanism during the transmission cycle



IMP-GSB-M3

Introduction

The General Servo Bus Daughter Board (for Yaskawa MECHATROLINK III) is developed by the MSL of ITRI for connecting the servo drives which use the MECHATROLINK III protocol. It is mainly used for the motor-based motion control applications in general industrial machines. The IMP-2 (intelligent motion control platform) connects the General Servo Bus Daughter Board via the General Servo Bus (GSB) to construct a motion control system which can complete the data transfer within a constant transfer period. With the wiring simplified connection and digital serial communications, the IMP-2 can connect up to 8 axes of servo drives to control motors through the daughter board. Such network-based digital servo drives architecture can significantly reduce the wiring complexity and hence improve the resistance against noise during the signal transmission. Therefore, it not only provides the flexibility and real-time response required for the high-speed and high-accuracy motion control, but also improves the reliability and renders easy maintenance of the system.

Specifications

Main Board Connection Interface: General Servo Bus

- Servo Connection Interface: Industrial miniature I/O connector
- Servo Transfer rate: 100Mbps
- Servo Transfer Cycle: 2ms

- Maximum Controllable Axes: 8 Axes
- Maximum distance between stations: 100m
- Power Requirement: 5V (350mA max.)
- Dimensions: 66mm x 96mm



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