

HIMC

Multi-Axis Motion Controller

Multi-axis motion control master with versatile programming capabilities for demanding industrial applications



Product Features



- Control up to 16 fully synchronized axes and connect to 32 slave devices
- 250 μ s minimum of controller cycle time
- 10/100/1000 Mbps TCP/IP host communication
- Support CANopen over EtherCAT (CoE) Fieldbus communication
- Multi-task HMPL programming with maximum 64 user tasks
- API library supported for C, C++, C#, Python, and LabVIEW host programming
- Support Modbus TCP, and ASCII TCP communication
- CE/UL approvals

Product Introduction

HIMC, HIWIN Mikrosystem motion controller, is the real-time multi-axis motion controller to meet specific requirements in industry automation. It can synchronize up to 16 axes and connect to 32 slave devices through EtherCAT Fieldbus communication. The protocol of EtherCAT Fieldbus communication adopts distributed clocks and enable 250 μ s minimum of refresh cycle time for all motors and I/O devices. The real-time digital control architecture renders your machine fast and high-responsive for a variety of demanding applications.

You can use HMPL (HIWIN Motion Programming Language) to write user task for motion control or use controller device to control communication through API library, Modbus TCP, ASCII TCP, and HIMC. For sophisticated motion requirements, HIMC provides synchronized single and multi-axis trajectories, including point-to-point, jogging, and 2D/3D linear and circular interpolation. Furthermore, the built-in dynamic geometric compensation algorithm enhances the positioning accuracy of your machine.

HIMC is complemented by iA Studio, a software package. By coping with the function of HMPL programming and relative status monitoring, data acquisition and offline simulation, etc., HIMC provides a smooth and interactive experience in configuring and deploying your own industrial applications.

