

NEW Extensible Stage Controller

ESC-M/S

CE

Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

F A Parts

Measurement & Control

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Piezo Stage

Precision Linear MS

High Speed MS

Motorized Goniometer

Motorized Rotation

Multiaxis Motorized

Industrial Robot

Controller & Driver & Cable

Custom-Built MS

Stage control system with Master controller and from one to eight slave Axes.

- Control with RS232C/USB/Ethernet interfaces is available.
- Full closed loop control is possible when used in combination with a stage with built in glass-scale.



Guide

- ▶ Sample programs are available for download on our website.
 - SGCommander 32-bit version for Windows® (only for RS232C)
 - SGCommander 32/64-bit version for Windows® (only for RS232C)
 - LabVIEW for RS232C (for v.5.1/v.6i/v7.1/v.8.6/v.2010)

Attention

- ▶ Power supply is DC+24V 1A. Depending on the number of stage axes, rated current of 2A (single axis) to 9A (8 axes) is required. You need to purchase the ASC-PS (AC adapter) or prepare an adapter separately.

Part Name	Part Number
Extensible Stage Controller (Master)	ESC-M
Extensible Stage Controller (Slave)	ESC-S
LAN Cable	ESC-LINK-2
AC Adapter	ASC-PS

Primary Functions

Part Number	HIT-M	HIT-S
Controller Function	○	—
Number of Control Axes	8	—
Stored Program Control	○	—
Feedback Control	GS	—
Circular Interpolation Control	○	—
Linear Interpolation Control	3 axes	—
Driver Function	—	Micro-step
Micro-step (Max. Division)	—	250
Driving Current (A/phase)	—	0.1 – 1.1

General Specifications

Power Voltage	DC24V 1A
Power Consumption	24VA
Operating Temperature	5 – 40°C
Storage Temperature	–20 – 60°C
Ambient Humidity	20 – 80%RH
External Dimensions (W×H×Dmm)	130×120×50
Weight (kg)	0.62 0.63

Interface

GP-IB	—
RS232C	○
USB	○
Ethernet	○

Optional

SJ-200A	—
SJ-300	—
SJ-400	—
SJ-02	—

Performance Specifications

Coordinate Indication Range	—
Max. Travel to Set	134,217,727
Max. Driving Speed (pps)	500,000
Min. Driving Speed (pps)	1
Acceleration/Deceleration Time (ms)	1 – 1,000

I/O Specification

Origin Sensor	○
Proximity Sensor	○
CW (+) Limit	○
CCW (–) Limit	○
General Purpose Input	4 points
General Purpose Output	4 points
Control Input	—
Control Output	—
Trigger Output	—

Control Command

Machine Origin Return	○
Theoretical Origin Setting	○
Relative Position Drive	○
Absolute Position Drive	○
Jog Operation	○
Position Appointment	—
Circular Interpolation Control	○
Linear Interpolation Control	○
Drive	○
Deceleration Stop	○
Emergency Stop	○
Speed Setting	○
Motor Free/Hold	○
Port Input	○
Port Output	○

Stepping Motor Stage



ESC System Chart

