

# Extensible Stage Controller | HIT-M/S/SH



## Modular 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 positioning stage equipped with encoder.



### Guide

- ▶ Sample programs are available for download on our website.
  - SG Sample 32/64 bit version for Windows®
  - LabVIEW for RS232C (for v.2014/v.2015)

### 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. Power supply is DC+24V 2A. Depending on the number of stage axes, rated current of 3A (single axis) to 17A (8 axes) is required. Please purchase the PAT-001-POW1 (AC adapter) or prepare a power supply separately.

Part Name	Part Number
Extensible Stage Controller (Master)	<b>HIT-M</b>
Extensible Stage Controller (Slave)	<b>HIT-S</b>
Extensible Stage Controller (Slave)	<b>HIT-SH</b>
LAN Cable	<b>LAN-2</b>
AC Adapter	<b>PAT-001-POW1</b>

### Primary Functions

Part Number	HIT-M	HIT-S	HIT-SH
Controller Function	○	—	—
Number of Control Axes	8	—	—
Stored Program Control	○	—	—
Feedback Control	—	OSMS (CS)series	HST (GS) series
Circular Interpolation Control	○	—	—
Linear Interpolation Control	3 axes	—	—
Driver Function	—	Micro-step	Micro-step
Micro-step (Max. Division)	—	250	250
Driving Current (A/phase)	—	0.11 – 11.1	1.4 (Fixed)

### General Specifications

Part Number	HIT-M	HIT-S	HIT-SH
Power Voltage	DC24V 1A		DC24V 2A
Power Consumption	24VA		48VA
Operating Temperature	5 – 40°C		
Storage Temperature	-20 – 60°C		
Ambient Humidity	20 – 80%RH (without condensation)		
External Dimensions (W×H×Dmm)	130×120×50	130×120×50	130×120×65
Weight (kg)	0.62	0.63	0.72

### Interface

GP-IB	—
RS232C	○
USB	○
Ethernet	○

### Optional

CJ-200A	—
JS-300	—
JB-400	—
JD-100	—
SJT-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	○

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Goniometer

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Options

40 × 40 mm

60 × 60 mm

80 × 80 mm

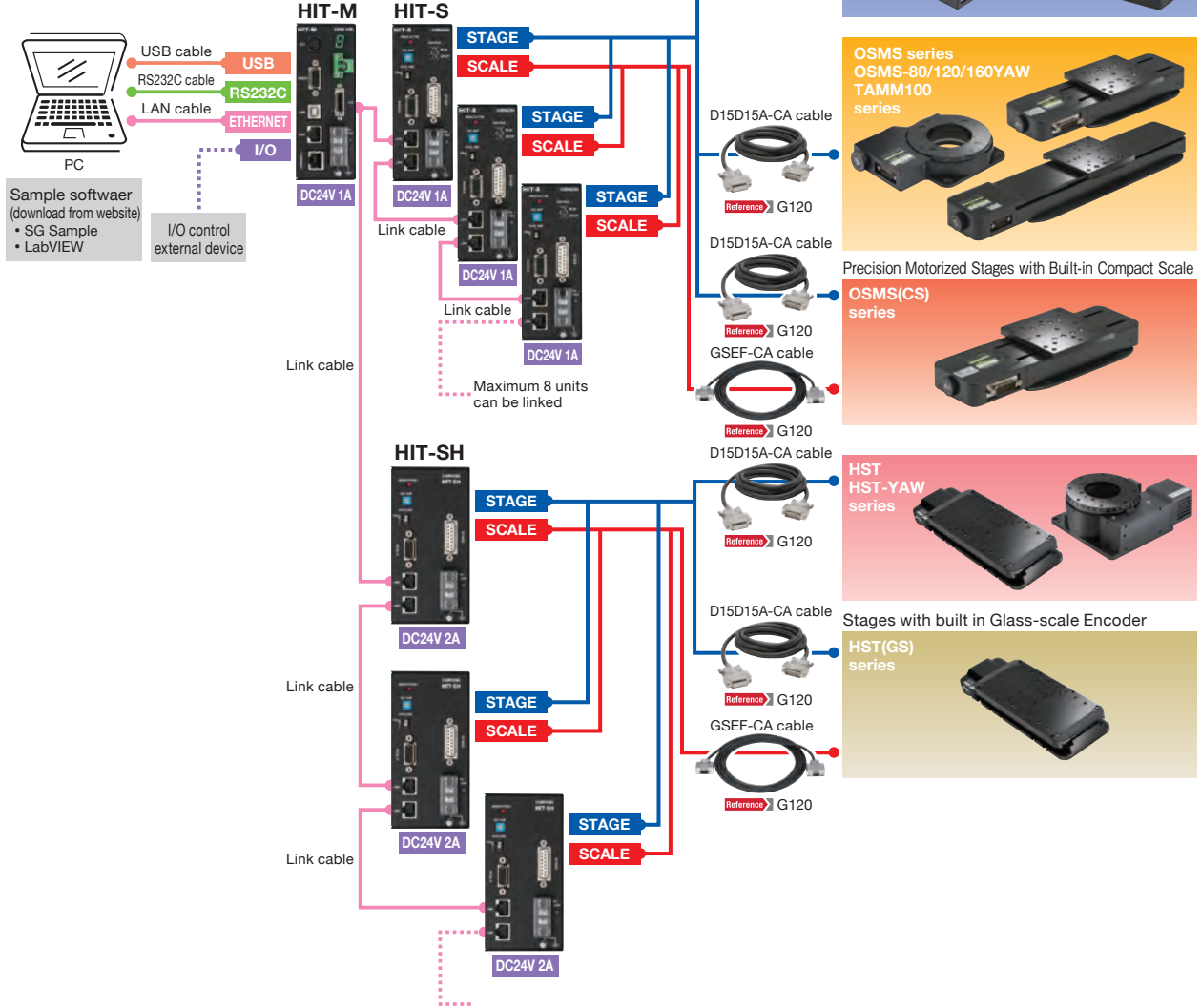
85 × 85 mm

100 × 100 mm

120 × 120 mm

Others

**HIT System Chart**



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- 80 x 80 mm
- 85 x 85 mm
- 100 x 100 mm
- 120 x 120 mm
- Others