

Extensible Stage Controller | HIT-M/S/SH

RoHS

CE

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) | HIT-M |
| Extensible Stage Controller (Slave) | HIT-S |
| Extensible Stage Controller (Slave) | HIT-SH |
| LAN Cable | LAN-2 |
| AC Adapter | PAT-001-POW1 |

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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Opto-Mechanics

Bases

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Theta Rotation

Goniometer

Vacuum

Options

40 × 40 mm

60 × 60 mm

80 × 80 mm

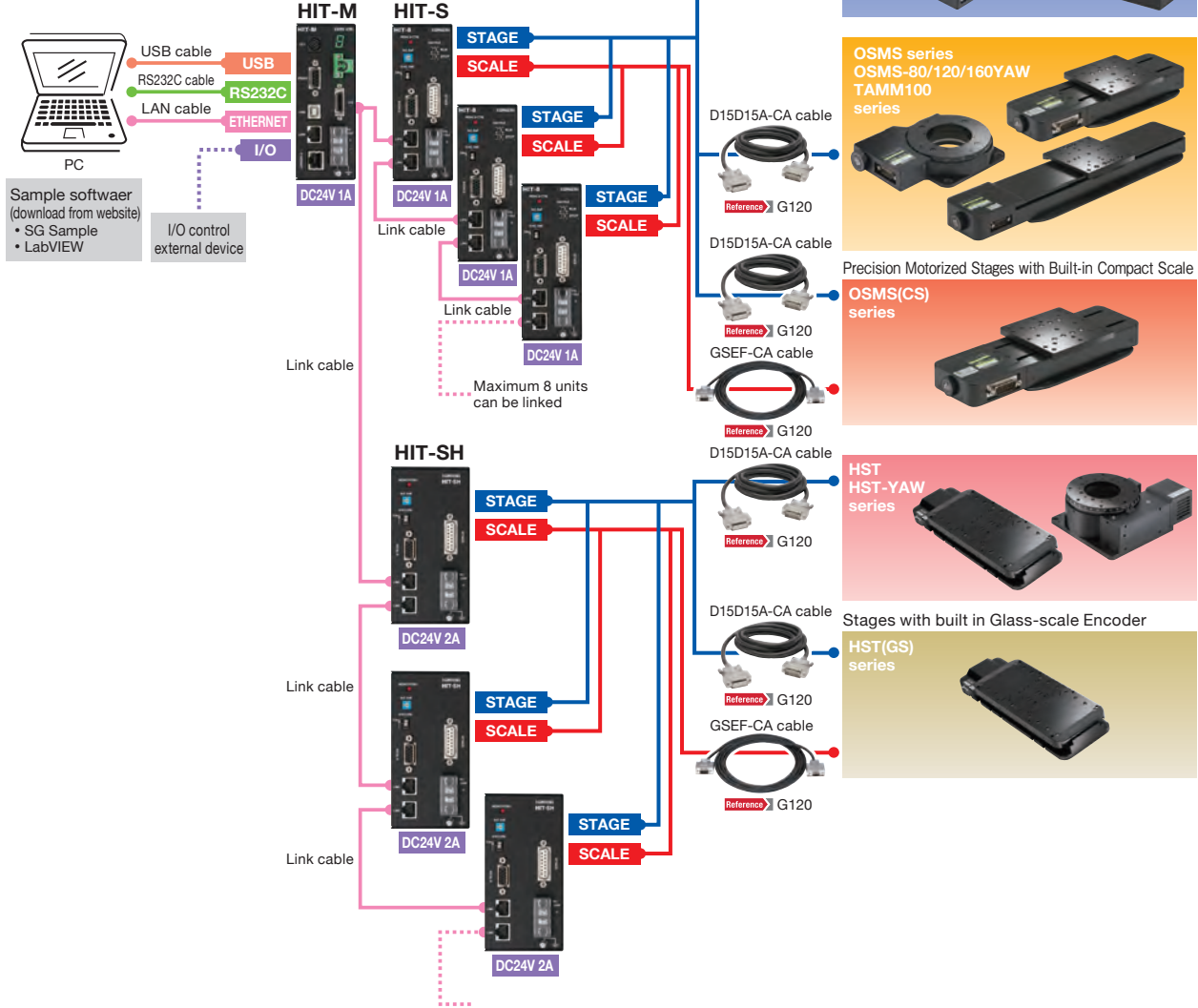
85 × 85 mm

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