

Head Interface Board for Ricoh MH2420/2620/2820 Printheads

GIS Inkjet Operating System

The HIB-RH-384 is a Head Interface Board designed to provide communications between the Ricoh MH2420/2620/2820 printheads and the GIS Print Manager Boards (PMB-C8/PMB-C2).

The HIB-RH-384 can support up to 4 x MH2420/2620/2820 printheads per board reducing system complexity and cost.



Printhead Control

The HIB-RH-384 provides access to all the standard MH2420/2620/2820 printhead settings through software including :

- Binary and greyscale waveforms
- Greyscale drop size mappings
- Printhead temperature monitoring and control
- EEPROM read back from printhead
- Fully configurable waveforms with software editor

Additional features include:-

- In field upgradeable firmware
- System diagnostics
- Supports all print modes and resolutions

Power Control

Provides the Ricoh MH2420/2620/2820 with appropriate head and heater voltages from a single 24V power supply.

Connectivity

The HIB-RH-384 is a standard interface component of the GIS Inkjet Operating System. It is designed to drive the Ricoh MH2420/2620/2820 series printheads using a GIS Print Manager Board and GIS Software.

Connectors

The HIB-FD-A4D assembly requires just two connectors to drive the printhead:

Data Connector

A standard RJ45 for connection to a GIS Print Manager Board using CAT 6a shielded cabling (up to 10m).

Power Connector

A standard 24V DC connector to supply the board and printhead with power. There is no requirement for separate printhead power.

Software, Machine Control and Sub-systems for Industrial Inkjet



GIS provides a complementary suite of products that companies can easily customise and rebrand - accelerating technology design and cutting development time:

Software Support

GIS offers a range of software with its Atlas® platform to drive the HIB-RH-384. The Atlas suite of products includes a customisable User Interface (UI) as well as a powerful server technology for managing the entire printing and sub-system process, Atlas Machine Control Services (MCS).

Built using Microsoft industry standard software and approaches, Atlas can be configured for different types of users and customised with different languages.

Ink System Components

GIS also provides a comprehensive range of ink delivery system components suitable for the controlled flow requirements of the HIB-RH-384 printhead product line.

Specifications

General

Supported printheads : Ricoh MH2420/2620/2820
 Dimensions H 160mm W 144.5mm D 23mm Weight: 195g
 Specifically designed for use with GIS software products
 High Speed (200Mb/s) data channel

Power Supply

24V DC

Printhead Control

Binary and grayscale waveforms
 Grayscale dropsize mappings
 Printhead temperature monitoring and control
 EEPROM read back from printhead
 Fully configurable waveforms with software editor

Cable Length

From PMB: 10m
 From HIB to head: 300mm

