

# Head Interface Board for Kyocera KJ4A/KJ4B/KJ4-03 Printheads

## GIS Inkjet Operating System

The GIS HIB-KY-KJ4 Head Interface Boards comprise a number of variants to support the Kyocera KJ4 600dpi series (A and B) printheads, the KJ4-03 (A and B) 300dpi series and provide communication to the GIS Print Manager Board. The Head Interface Boards support:

- KJ4A-AA
- KJ4A-TA
- KJ4A-RH
- KJ4B-QA
- KJ4B-YH
- KJ4A-03
- KJ4B-03

- for both UV and aqueous ink types.



## Printhead Control

The HIB-KY-KJ4 boards provide access to all the standard KJ4 printhead settings through software including:

- Printhead temperature control +/- 0.1°C
- Greyscale drop size mapping
- Clock 2 Period settings
- Target Junction Temperature with automatic power off
- Printhead Data (nozzle fires, manufacturing data)
- Voltage trimming
- Waveform upload and read back
- Drives full rate binary and greyscale data.
- Able to print almost any resolution

## Power Control

The HIB-KY-KJ4 boards provide the Kyocera printheads with printhead and heater power via a single 24V power connector.

The boards are specifically designed with small form factor for easy connection and integration with the Kyocera KJ4 printheads.

## Connectivity

The HIB-KY-KJ4 boards are components of the GIS Inkjet Operating System, designed to drive all of the KJ4 series printheads using a GIS Print Manager Board and GIS Software.



## Connectors

The HIB-KY-KJ4 boards require just two connectors to drive the printhead:

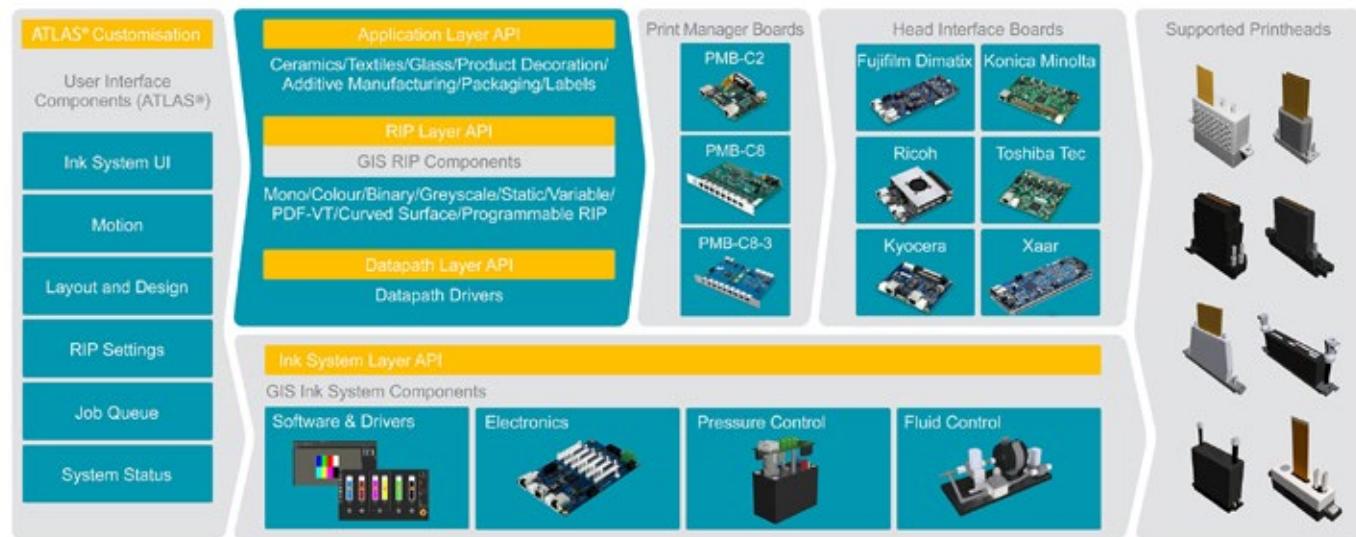
### Data Connector

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

### Power Connector

A standard 24V DC connector to supply the entire board set 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 full range of software with its Atlas® platform to drive the HIB-KY-KJ4 boards.

The Atlas suite of products includes a flexible 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 an extensive ink delivery system components range, comprising electronics, software and a portfolio of customisable header tanks and peripherals as well as all parts of the system that require significant development time.

## Specifications

### General

Supported printheads: KJ4A 600dpi 20/30kHz; KJ4B 600dpi 30/40kHz; KJ4A/B 300dpi 30kHz

Dimensions KJ4A/B 600dpi H 80mm W 71mm D 17mm Weight: 30g

Dimensions KJ4A/B 300dpi H 80mm W 130mm board set Weight: 25g

Designed for use with GIS software or as a stand-alone product

High speed (200MB/s) data channel

### Power Requirements

KJ4A/B 600dpi 24V DC 1.5A; KJ4A/B 300dpi 24DC 3A (heater / frequency dependent)

### KJ4 Printhead Control

Printhead temperature control +/-1°C

Printhead Thermistor Threshold Voltage Control

Grey level drop size control

Voltage trimming

Waveform upload and read back

### Cable Length

From PMB: 10m

From HIB to head: 300mm