

Head Interface Board for KM1800i Printheads

GIS Inkjet Operating System

The HIB-KM-1800i from GIS is a Head Interface Board designed to provide direct communications between the Konica Minolta KM1800i printheads, as well as the KM1800iSHC-C double-printhead module, and the GIS Print Manager Board (PMB-C8-3).



Printhead Control

The HIB-KM-1800i provides access to all the standard KM1800i printhead settings including voltage trim, temperature (for printhead models with a heater), binary and greyscale model and waveform settings.

Connectivity

The HIB-KM-1800i is a native component of the GIS Inkjet Operating System. It is designed to drive all of the KM1800i series printheads using a GIS Print Manager Board and GIS Software.

Power Control

The HIB-KM-1800i uses a convenient single 24V power connector. Power up and down sequencing is automatically controlled with voltage level auto-sensing circuitry.

The HIB-KM-1800i is specifically designed with a small form factor for compact system architectures.

The HIB-KM-1800i can drive up to 2 x KM1800i single printheads per board or 1 x KM1800iSHC-C double-printhead module. It is a direct drive board and does not require any ICB from Konica Minolta.

Connectors

The HIB-KM-1800i requires three 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

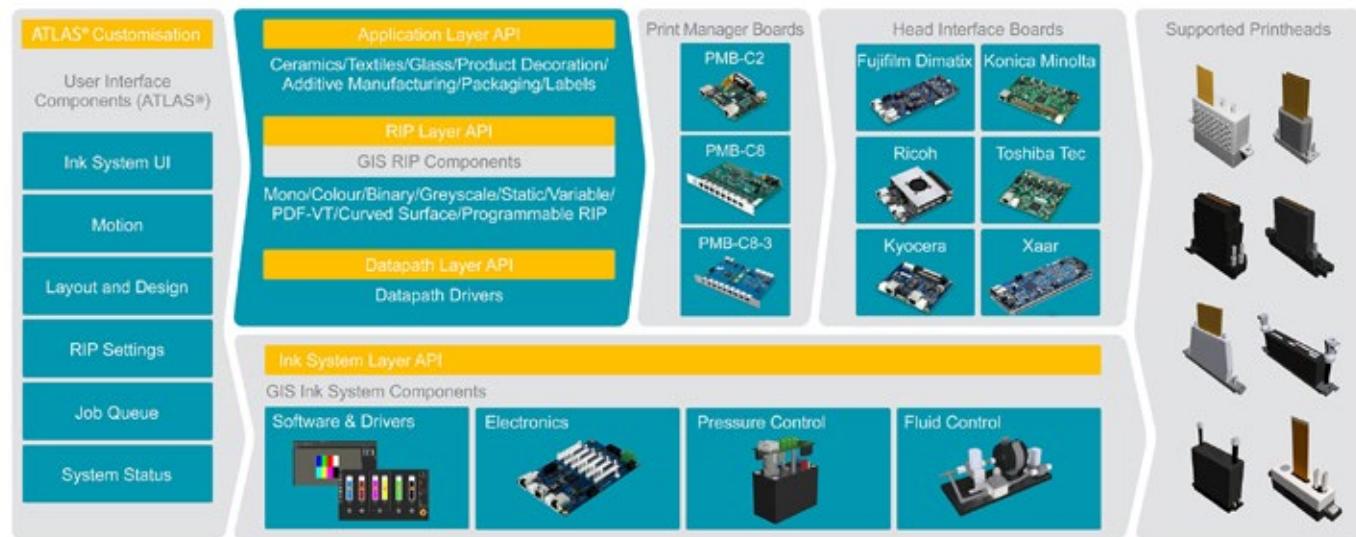
A standard 24V DC connector to supply the entire board set and printhead with power.

Printhead Connector

Cable supplied by GIS*

**Additional cable required if using the KM1800iSHC-C printhead module*

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-KM-1800i.

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 / modules : KM1800i, KM1800iSHC-C

Dimensions H 140mm W 140mm D 15mm Weight: 185g

Designed for use with GIS software

High speed (200 - 400MB/s) data channel

Power Requirements

24V DC

KM1800i Printhead Control

Printhead and heater voltage control

Left and right nozzle bank voltage trim (0.1V steps)

Printhead thermistor control (0.1°C steps)

Grey level / Binary mode control

Grey level drop count control

Printhead waveform control

Cable Length

From PMB: 10m

From HIB to head: 550mm