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*)

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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.

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**Specifications**

<table>
<thead>
<tr>
<th>General</th>
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<tbody>
<tr>
<td>Supported printheads / modules : KM1800i, KM1800i/SHC-C</td>
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<tr>
<td>Dimensions H 140mm W 140mm D 15mm Weight: 185g</td>
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<tr>
<td>Designed for use with GIS software</td>
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<tr>
<td>High speed (200 - 400MB/s) data channel</td>
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</tbody>
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**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