GIS | GLOBAL INKJET SYSTEMS

Head Personality Board for Konica Minolta KM512 Printheads

GIS Inkjet Operating System

The HPB-KM-512 is a GIS Head Personality Board, designed to provide communications between the Konica Minolta KM512 series (S, M and L) printheads and the GIS Print Manager Boards (PMB-C8/PMB-C2).

Printhead Control

The HPB-KM-512 provides access to all the standard KM512 printhead settings including voltage trim, temperature (where printheads have a heater), binary and greyscale mode, waveform settings. Additional control is also provided over printhead and heater power.

Connectivity

The HPB-KM-512 is a native component of the GIS Inkjet Operating System. It is designed to drive all of the KM512 series printheads using a GIS Print Manager Board and GIS Software.

Power Control

The HPB-KM-512 provides the Konica Minolta ICBs with 24V printhead and 24V heater power via a single 24V power connector.
Power up and down sequencing are automatically controlled with voltage level auto-sensing circuitry.

 The HPB-KM-512 is specifically designed with small form factor for easy connection and integration with the KM512 ICB boards.

Connectors

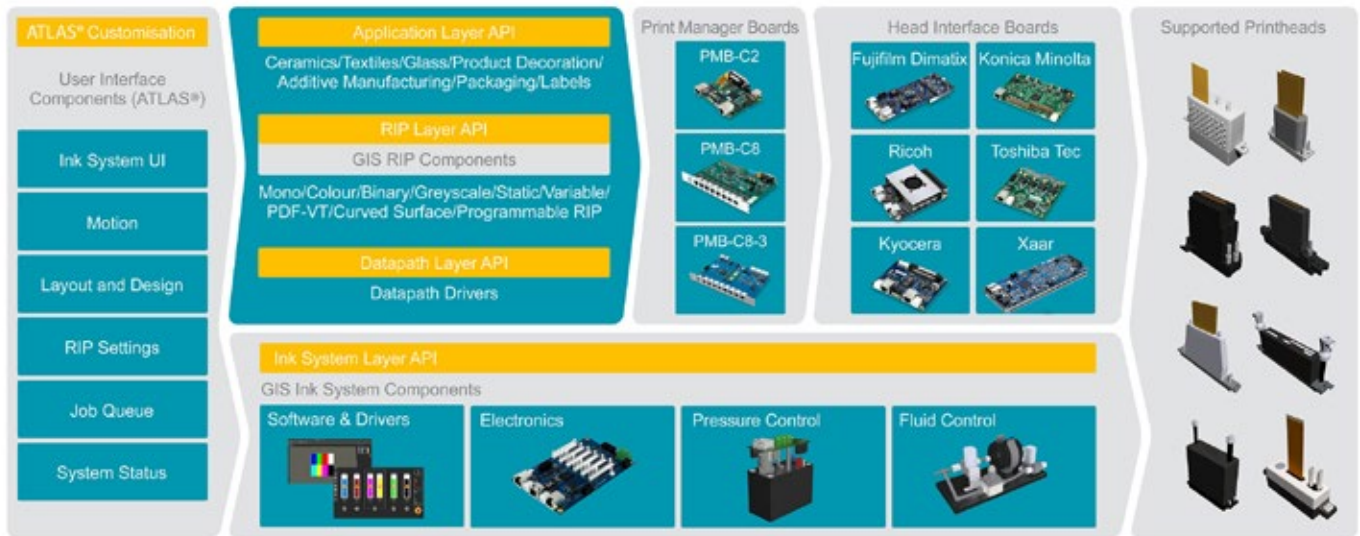The HPB-KM-12 requires just two connectors to drive the printhead:

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 or KM ICB 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 HPB-KM-512.

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 : KM512 (S,M,L)	
Dimensions H 50mm W 71mm D 17mm Weight: 30g	
Designed for use with GIS software or as a stand-alone product	
High speed (200MB/s) data channel	
Power Requirements	
24V DC 1.5A for KM512 printhead with a heater	
KM512 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: 300mm	