

Head Interface Board for KM1024 Printheads

GIS Inkjet Operating System

The HPB-KM-1024 from GIS is a Head Personality Board designed to provide communications between the Konica Minolta KM1024 series (S,M and L) printheads and the GIS Print Manager Boards (PMB-C8/PMB-C2)

Printhead Control

The HPB-KM-1024 provides access to all the standard KM1024 printhead settings including voltage trim, temperature (for printhead models with a heater), binary and greyscale mode (8 level), and waveform settings. Additional control is also provided over printhead and heater power.

Power Control

The HPB-KM-1024 provides the Konica Minolta ICBs with 24V printhead and 24V heater power via a convenient single 24V power connector.

Power up and down sequencing is automatically controlled with voltage level auto sensing circuitry.

Form Factor

The HPB-KM-1024 is specifically designed with a small form factor for easy connection and integration with the KM1024 ICB boards.



Features

General

Supported Printheads : KM1024 (S,M,L)

Dimensions H 65mm, W 67mm, D 17mm

Weight : 35g

Specifically designed for use with GIS software products

High Speed (200MB/s) data channel

Power Requirements

24V DC 1.5A for KM1024 printhead with a heater

24V DC 0.5A for KM1024 printhead without a heater

KM1024 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

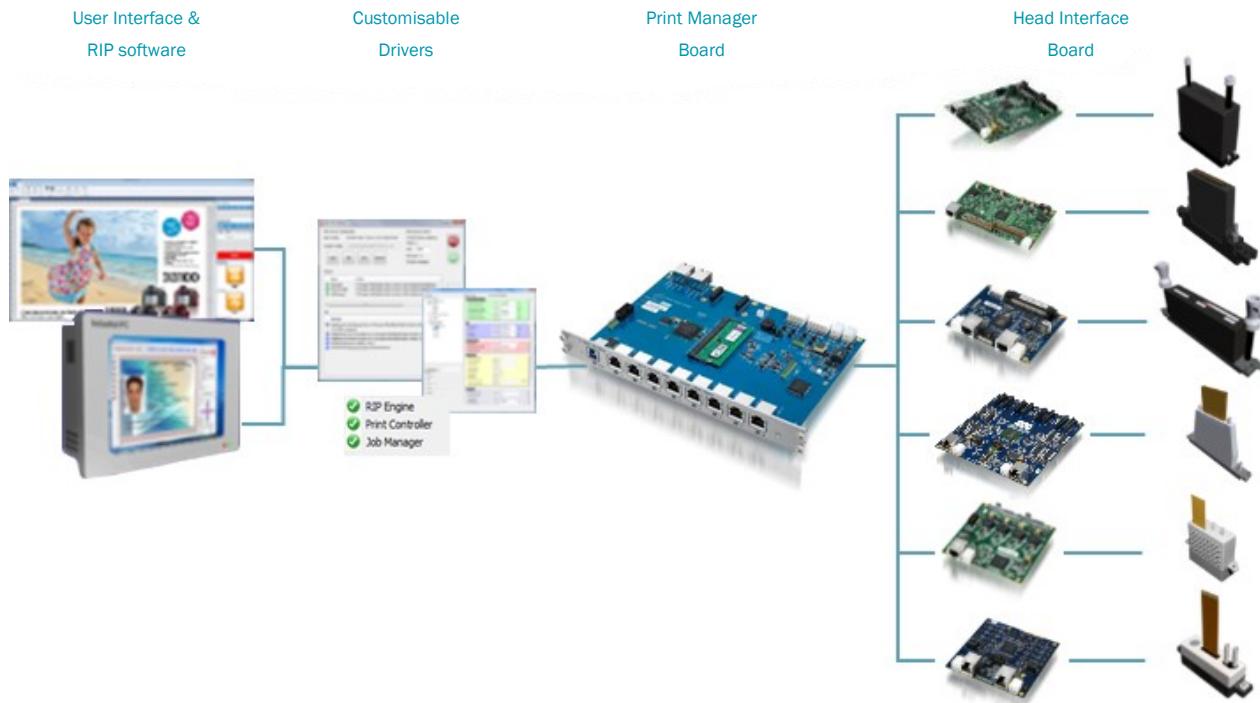
Printhead Waveform Control

Cable Length

From PMB : 15m

From HIB to head : 300mm

GIS Operating System



Connectivity

The HPB-KM-1024 is a standard interface component of the GIS Inkjet Operating System. It is designed to drive all of the KM1024 series printheads using a GIS Print Manager Board and GIS Software.

Connectors

The HPB-KM-1024 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 15m).

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 KM1024 ICB power.

