GIS
GLOBAL INKJET SYSTEMS

A NANODIMENSION DIVISION

Product Information Sheet

Ethernet Head Manager Board Analogue Head Board
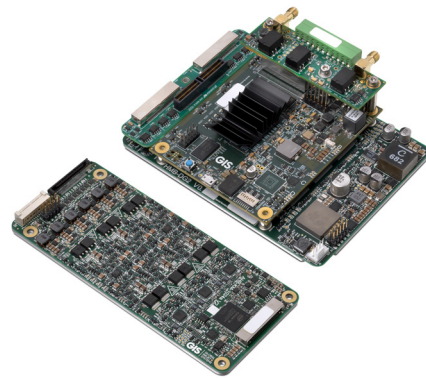## for Konica Minolta KM1024a Printheads

GIS HMB-DG2 Head Manager Board AHB-KM-1024a Analogue Head Board
for KM1024aSHE and KM1024aLHG-RC Printheads

The HMB-DG2 AHB-KM-1024a from GIS combines a Head Manager Board and connected Analogue Head Board to drive the compact, recirculating Konica Minolta KM1024aSHE and KM1024aLHG-RC printheads for scanning and single-pass applications, ideal for high-laydown industrial applications - supporting solvent, oil-based and UV curable inks.

Enabling full binary and greyscale capabilities, the HMB-DG2 AHB-KM-1024a integrates datapath buffering and printhead management, all accessed via Gigabit Ethernet.

Features and Benefits

- Ethernet platform using the latest GIS architecture

- Each HMB-DG2 AHB-KM-1024a drives up to 2 x Konica Minolta printheads for industrial high-laydown applications with optional 2 x stackable daughter boards to support up to 6 x printheads

- Compatible with the GIS SM-200 System Manager for industry-standard product detect / PrintGo and encoder signal support

- Multiple software interface options

- Integrated encoder and product detect management options via a SEB-EPD expansion module

- Flexible built-in options for easy mounting

- Optimised to dissipate power to simplify cooling requirements

Software Support

The HMB-DG2 AHB-KM-1024a also has a number of software options for control and datapath. For example, the built-in interface allows easy integration for drop watching and basic print operations, while the API allows the implementation of custom software. Or take advantage of the full GIS Atlas® Software Suite for more complex print systems. Comprising the powerful Atlas Professional user interface and Atlas Server, a high performance and extensible print system controller, Atlas offers you a quicker route to market.

Specification

Print Modes

- Binary
- Greyscale
- Drop-size mapping
- Number of grey levels - 7

Performance

- Supports 6 x waveforms
- High-speed data channel
- HMB temperature monitoring and thermal cutout

Monitoring

- Printhead temperature monitoring and thermal cutout
- Printhead EEPROM readback

Control

- Printhead temperature control

Connectivity

- 24V to 48V DC power supply
- Ethernet to HMB - Cat 5e or better - up to 100m
- From HMB to AHB - up to 1000mm
- From AHB to printhead - up to 300mm

Dimensions

HMB-DG2

- H32mm x W140mm x L100mm
- Weight - 267g

AHB-KM-1024a

- H10mm x W85mm x L130mm
- Weight - 118g