

## PMB-C8 - Print Manager Board

### GIS Inkjet Operating System

The PMB-C8 is a multi-channel Print Manager Board - a core hardware component of the GIS Inkjet Operating System. It enables a standard Windows PC to drive multiple industrial inkjet print-heads via USB 2.0.

The PMB-C8 provides read and write access to all available OEM printhead settings including temperature control, voltage and waveform settings, binary and grayscale calibration.



### Performance

Each printhead is driven by a dedicated high speed channel capable of delivering print data on demand in the most demanding of applications.

High speed on-board RAM provides ample buffering for wide-format and single pass systems, allowing the specialised software drivers to deliver continuous static and variable data streams to the print-heads.

### Drop Placement Control

The Encoder Manager System (EMS) supports industry standard encoders and Product Detect / PrintGo signals and provides per-printhead encoder divide and sub-pixel adjust, delivering complete drop placement control and repeatability.

### Connectivity and Scalability

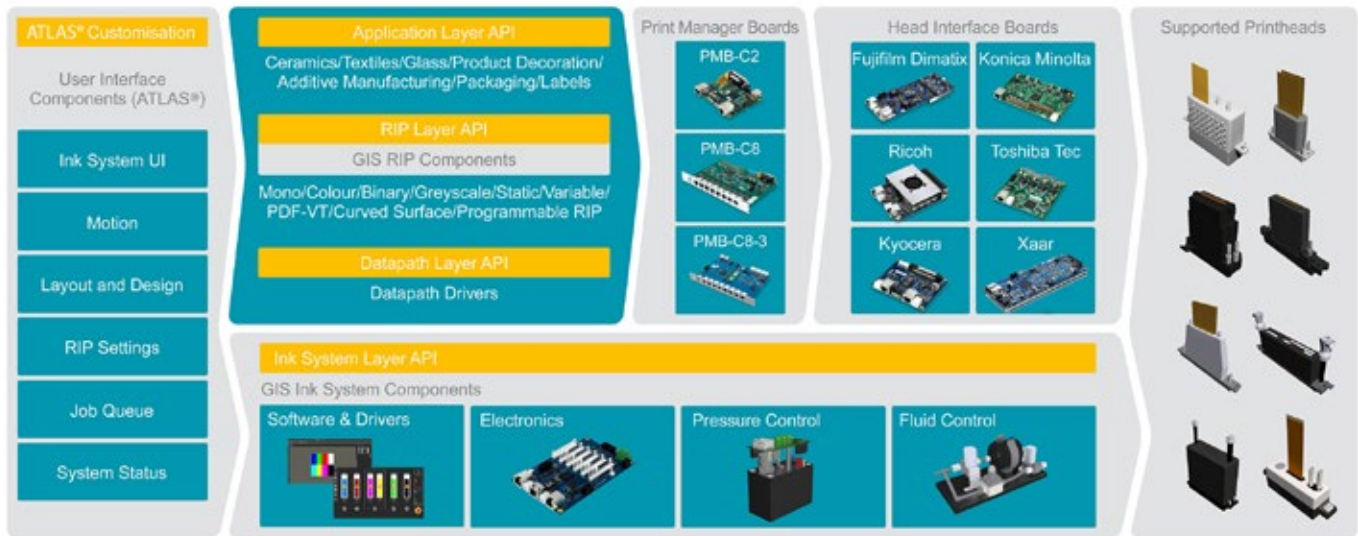
The PMB-C8 is a component of the GIS Inkjet Operating System. It is designed to drive manufacturers' printheads using GIS Head Personality Boards.

Multiple PMB-C8s can be stacked horizontally or vertically using an industrial standard VME backplane to drive larger arrays of printheads. Software configurable master-slave architecture simplifies set-up and maintenance.

### Advanced Applications

With the power to simultaneously drive multiple print-head technologies off the same system at different resolutions, the PMB-C8 opens up a world of possibility for printer development and manufacturing.

# 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

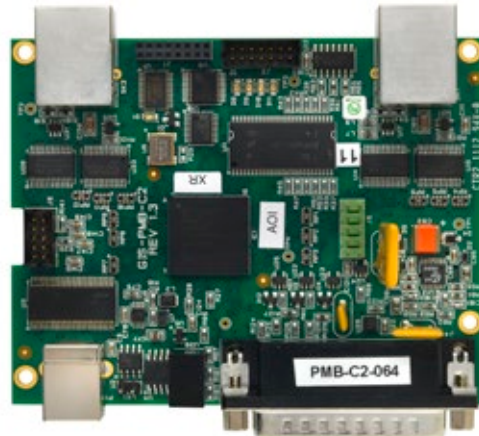
GIS offers a full range of software with its Atlas® platform to drive the PMB-C8.

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 a comprehensive range of ink delivery system components suitable for the controlled flow requirements of manufacturers' printheads.



## Specifications

### General

Recommended for Windows 7

USB 2.0 for broad compatibility (up to 300MBits/s)

Dimensions (Board) H 20mm W 233mm (6U Size B) D 160mm  
Weight: 85g

Designed for use with GIS software

### Power Requirements

12V power supply (0.3 to 1.0A depending on EMS use)

### Encoder Management System

Support for RS422 (optically isolated) & TTL encoder inputs)

Single and Dual Phase

Single or Dual Edge Detect

Encoder Management supports non-integer division. (The encoder resolution does not have to be an integer multiple of the print resolution)

5V and 12V encoder power supply (up to 0.3A each)

### Scalability

IDC Connector for compact dual PMB systems

Distributed encoder and PrintGo / Product Detect for multiple PMBs

Upgradeable to the 8-channel PMB-C8

PMB-C8 0818 E&OE All trademarks acknowledged