GIS GLOBAL INKJET SYSTEMS

Head Interface Board for Xaar 1003 and Nitrox Printheads

GIS Inkjet Operating System

The HIB-XR-1002 is a GIS Head Interface Board designed to provide communications between the Xaar 1003 GS6/ GS12 / GS40 printhead, the Xaar Nitrox Core / Pro / Elite printhead and the GIS Print Manager Boards (PMB-C8-3/PMB-C8/PMB-C2).

Printhead Control

The HIB-XR-1002 provides access to all the standard Xaar printhead settings including voltage trim, binary and greyscale mode (8 grey levels), waveform settings and automatic download of Xaar configuration files.

Nitrox Printheads
Updated software and logic drives the Nitrox range of printheads up to their maximum speeds.
Using the AcuChp information stored within each Nitrox printhead means that head setup is fast and simple.

Power Control

The GIS HIB-XR-1002 provides the Xaar printheads all their power requirements via a single 24V power connector.

Connectivity

The HIB-XR-1002 is a standard interface component of the GIS Inkjet Operating System.

It is designed to drive the Xaar 1003 and Xaar Nitrox printhead using a GIS Print Manager Board and GIS Software.

Connectors

The HIB-XR-1002 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 HIB-XR- 1002 board and 1 x Xaar 1003 or 1 x Xaar Nitrox printhead with power. There is no requirement for separate printhead power.

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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

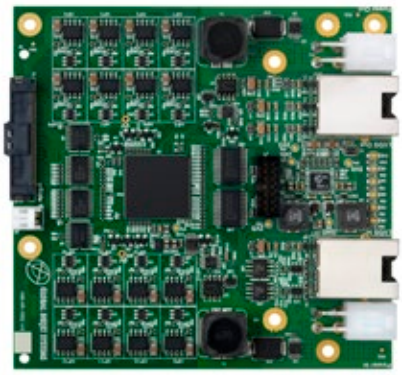
GIS offers a full range of software with its Atlas® platform to drive the HIB-XR-1002.

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 : Xaar 1003 and Xaar Nitrox
Dimensions H 98mm W 74mm D 15mm Weight: 100g
Designed for use with GIS software or as a stand-alone product
High speed (200Mb/s) data channel
Power Requirements
24V DC
Xaar Printhead Control
Printhead voltage base and offset control
Left and right nozzle bank voltage trim (1/16V steps)
Grey level / Binary mode control
Grey level drop count control
Printhead waveform control
Cable Length
From PMB: 10m
From HIB to head: 300mm

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