

Drive Electronics

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GIS Drive Electronics offer comprehensive, high performance and flexible datapath solutions, supporting a wide range of printheads from major manufacturers including Fujifilm Dimatix, Konica Minolta, Kyocera, Ricoh, SII Printek, Toshiba TEC and Xaar. GIS also runs a continuous development programme to support new printheads.

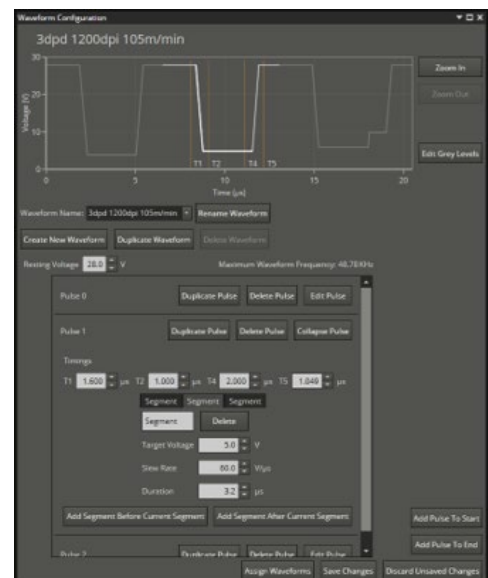
GIS electronic design and quality components provide exceptional waveform generation, monitoring and digital control of printheads - delivering world class productivity, print quality and system reliability.

Working with industry-leading printhead manufacturers, GIS provides production proven electronics that are used in industrial inkjet printers ranging from label and packaging presses and textile printers to 3D additive manufacturing systems. GIS technology drives thousands of inkjet printheads in single pass, XY scanning, 3D and custom-figured systems worldwide.



Key Features

- Choice of USB and / or Ethernet platforms
- High quality components, robust design, long design lifetime
- Full image, full speed Variable Data Printing (VDP)
- Modular, scalable architecture
- Multiple integration options
- Waveform Generation (where applicable)
 - High precision waveforms
 - Binary / Greyscale / Multi-Drop
 - Meniscus Activation
- Continuous diagnostics and monitoring
 - Temperature, voltage, current monitoring
 - Over / under temperature shutdown
 - Encoder and Product Detect diagnostics and monitors
 - Communications and link status
- Long product availability with remote feature upgrades



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USB and Ethernet Platform Options

The proven USB platform from GIS uses the Print Manager Board (PMB) to drive each printhead Head Interface Board (HIB) with a dedicated high-speed channel capable of delivering print data, on demand, in the most demanding of applications. High speed on-board RAM offers ample buffering for wide-format and single pass applications, allowing the specialised software drivers to deliver continuous static and variable data streams to the printheads. The PMB and HIBs are fully configurable and upgradable via software, offering machine builders complete flexibility.

The latest Ethernet platform from GIS supports industry standard network hardware and is built around a family of Head Manager Boards (HMBs). Each HMB can support a wide range of printheads and can either be driven from the GIS Atlas® Server software or directly via an HTTP 2.0 RESTful interface. GIS offers many system configuration options, but typically the HMB works in conjunction with the GIS SM-200 System Manager.



System Manager

The System Manager (SM-200) is a comprehensive management device, providing industrial print system timing control using the GIS Ethernet network interface. Industry standard Product Detect / PrintGo and Encoder signals are supported. A dedicated strobe output is provided to enable drop watching. The SM-200 is designed to work with GIS Ethernet platform.

GIS Drive Electronics support printheads from the following manufacturers



For more information on printhead support or to talk about supporting additional printheads, please contact us info@globalinkjetsystems.com