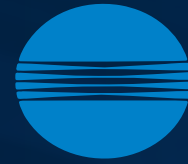


# GIS

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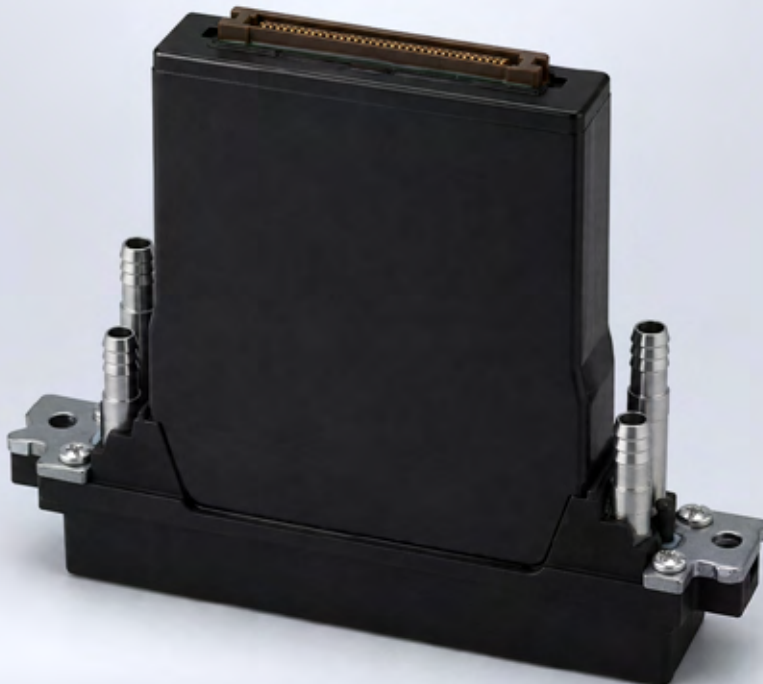
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KONICA MINOLTA

## Product catalogue

GIS drive electronics for  
Konica Minolta  
KM1800i printheads



Overview

GIS electronics enable precise, scalable and reliable control of Konica Minolta KM1800i printheads using an indirect architecture on the Ethernet platform. Designed for OEMs and machine integrators, the GIS solution combines compact printhead cards, high-capacity manager cards and the Atlas® software platform to accelerate development while ensuring production-grade performance.

Key Benefits

High-fidelity waveform control: binary, greyscale and multi-pulse with fine slew-rate and amplitude shaping.

Scalable system architecture: distributed Ethernet option.

Small form factor printhead cards designed for single head or large arrays.

Integrated safety and diagnostics: temperature monitoring, thermal cut-out and EEPROM readback.

Seamless integration with GIS Atlas software, Professional and Server.

Architecture Overview

GIS implements an indirect architecture: the Printhead Card interfaces directly with the Konica Minolta KM1800i printhead, while a Printhead Card Manager handles data distribution, synchronisation and power management. Systems can be configured on the Ethernet platform to suit throughput and scaling needs.

Konica Minolta KM1800i Printhead Card Manager (InDirect) Configuration via Ethernet

PC, Print Server + Atlas Professional



Printhead Card Manager  
13004370

Printhead Card  
13005704

Printhead

Up to 6 Printheads supported  
Printhead Card Expansion Board adds 2 connectors for 2 extra Printhead Cards



Printhead Card Expansion Board 1200491



Signal Manager with Master Relay 1200607

## Ethernet Platform

Printhead Card (Product code: 13005704); each card connects to one KM1800i printhead. The Ethernet platform supports distributed architectures and scaling via the Ethernet Printhead Card Manager.

Supported printheads	Konica Minolta KM1800i printhead
Max printheads per card	1
Power supply	48V DC, 20A max
Dimensions (H×W×D)	100 × 60 × 9mm
Weight	66g
Waveforms	Binary, greyscale and multi-pulse
Monitoring & safety	Printhead temperature monitoring; thermal cut-out
Diagnostics	Printhead EEPROM readback
Cable length: Manager → Card	Up to 1m
Cable length: Card → Printhead	400mm
Software compatibility	Atlas Server, Atlas Professional

## Compatible Components

- Product detect / encoder signal manager modules.
- Ink delivery system components for controlled flow to KM1800i printheads.



Printhead Card Manager 13004370

Type	Product codes	Max connected Printhead Cards	Notes
Printhead Card Manager (Ethernet)	13005704	Connects up to 2 Printhead Cards	Base configuration
Expansion Board	1200491	+2 Printhead Cards per expansion board (up to 6 total*)	

\*Maximum achievable printheads may be limited by data rate, firing frequency and power consumption.

## Connectivity & Cabling - Ethernet

### Data:

- PC to Printhead Card Manager: Up to 100m
- Printhead Card Manager to Printhead Card: Up to 1m
- Printhead Card to Printhead: 400mm

### Power:

- 48V DC to supply the Printhead Card Manager.
- No separate printhead PSU required.

## GIS Ordering Information

Speak to our experts for guidance on how to configure your system to your exact needs, the part codes for this example system are below.

Category	Product	Code
Printhead Card E Assembly (Ethernet)	Printhead Card E assembly for KM1800i	13005704
Ethernet Printhead Card Manager	Base card	13004370
Ethernet Expansion Board	Adds 2 cards per expansion (up to 6 total)	1200491

## GIS Notes & Disclaimers

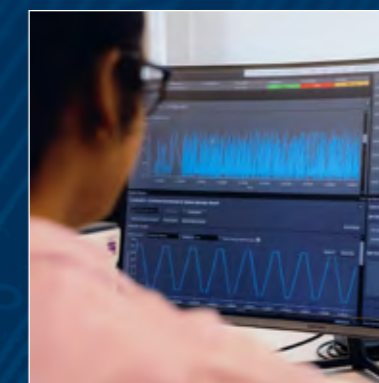
- Specifications are subject to change without notice.
- Performance characteristics depend on system configuration, ink and operating conditions.
- All trademarks are the property of their respective owners. Atlas® is a registered trademark of Global Inkjet Systems (GIS).

## Q Typical Applications

- Labelling.
- Coding and marking.

## GIS Software – Atlas® Platform

Atlas is a software platform for the rapid development of industrial inkjet user interface and machine control systems. Atlas can control a complete machine or act as a component in larger systems. Its unique modular and open design allows you to customise, as well as to integrate additional tools to enable a quicker route to market for your product.



## GIS Ink Management Systems

GIS ink management systems provide controlled ink supply, pressure regulation and flow management for industrial inkjet systems. Designed to support stable jetting across a wide range of printhead technologies, they can be configured for different flow requirements, ink types and machine architectures. GIS can advise on the appropriate ink delivery configuration to match the selected printhead, application and production environment.





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## Speak to GIS

**+44 (0) 1223 733 733**

[www.globalinkjetsystems.com](http://www.globalinkjetsystems.com)

[gis.info@nano-di.com](mailto:gis.info@nano-di.com)

**Global Inkjet Systems Ltd**  
Edinburgh House  
St. John's Innovation Park  
Cowley Road  
Cambridge  
CB4 0DS  
United Kingdom