

GIS ATLAS SERVER

with distributed PDF processing powered
by Adobe PDF Print Engine

High performance PDF processing for
industrial inkjet



POWERED BY

Adobe PDF Print Engine

Atlas Server



Atlas Server is a high-performance RIP engine providing image processing and hardware management for the wide range of printhead drive electronics and ink management systems offered by GIS. Built on an open interface standard, it enables images to be processed in numerous ways to achieve:

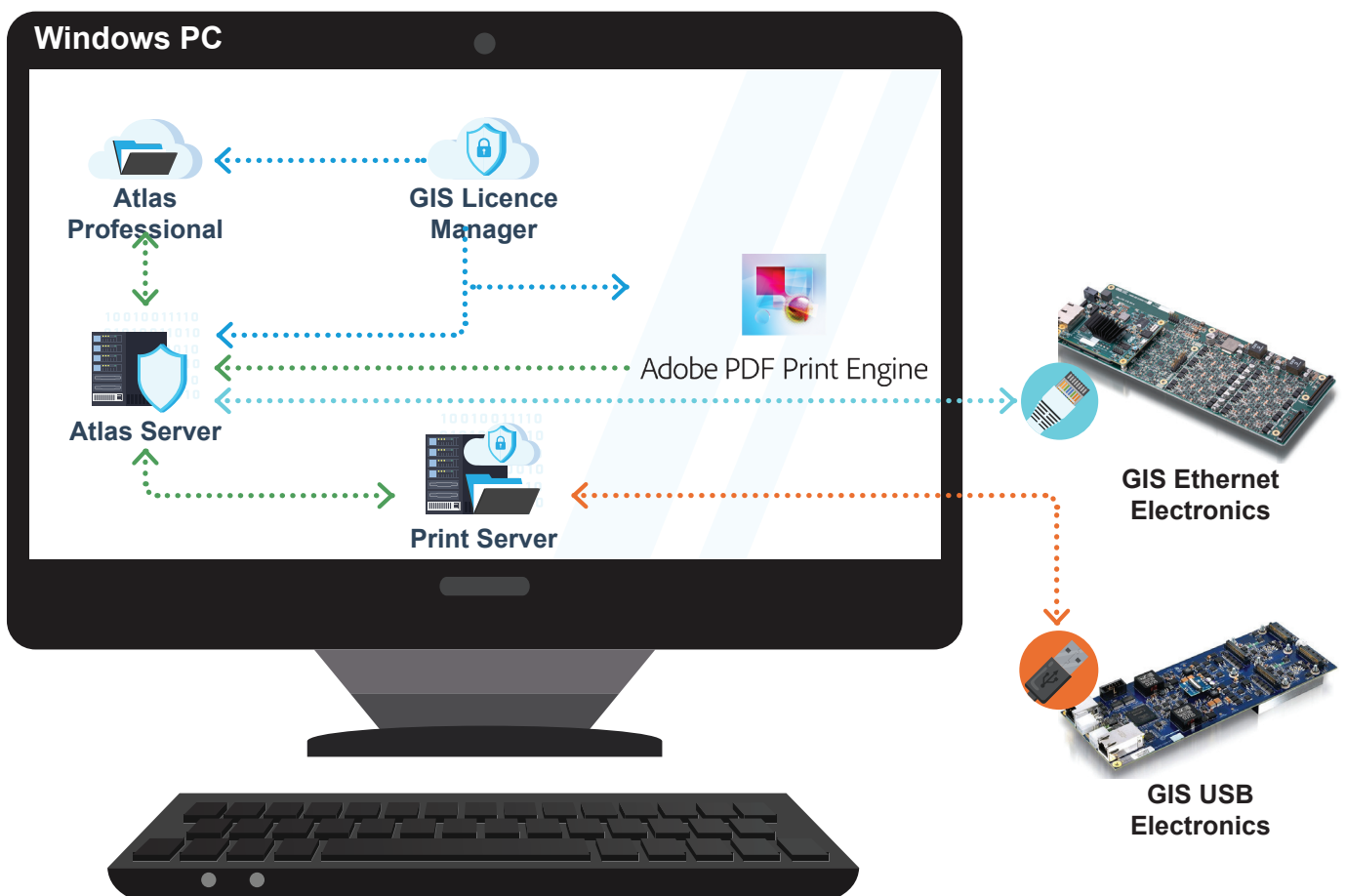
- Repositioning and sizing
- Back-to-back printing of jobs
- Missing nozzle compensation
- Nozzle density compensation
- Image screening
- Test pattern management
- Dynamic adjustment of image position
- Single pass and multi-pass printing
- Colour control

Users can also extend the functionality of Atlas Server to meet their own requirements using the GIS SDK. This functionality is:

- Supplied with industry-standard HTTP RESTful API
- Accessed using the open source Swagger framework interface on a standard browser
- Provided with client source code and project files for many languages, including C#, C# .NET 2.0, C++, Python and more

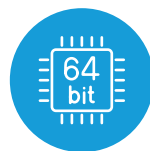
Atlas Server Features

- Improved rendering performance for some PC hardware compared to competitor offerings
- Hot folder support for drag and drop printing
- Rich API interface for customer integration
- Scalable from 1 to 64 workers
- Works with all GIS hardware
- Available as a software only solution
- Soft licence, no USB dongle required
- PDF, PDF/VT and GIS variable data engine (VPI)
- Single page and multi page support
- Auto optimisation of repeat prints for maximum printhead speeds



Input file types

- PDF, PDF 2.0, PDF/X-6, PDF/VT-3
- TIFF and other image formats
- Job ticketing via JDF
- Pre-flight integration supported



Operating system requirements (64-bit only)

- Windows 10/11
- Intel i5/i7/i9/Xeon or higher, i7/i9 preferred
- RAM: 1 GB minimum, 2 GB+ recommended for each PDF Print Engine instance
- SSD hard disk preferred

Product Applications



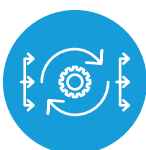
Solutions

- Hardware DFE (Digital Front End)
- Raster Image Processing (RIP) software
- Prepress workflow system
- Raster preview
- Proofing
- Industrial printing



Market segments

- Packaging and label printing
- Textile printing
- Industrial printing and embellishing
- Graphic arts and commercial printing
- Large format printing
- Variable data printing
- Proofing



Performance

- Dynamic distributed RIP models for the latest high-end multi-core, multi-blade, networked cluster, RIP farm, and multi-pass systems
- Tile parallel processing for large format jobs
- Maximum use of concurrency across interpretation and rendering



Job types

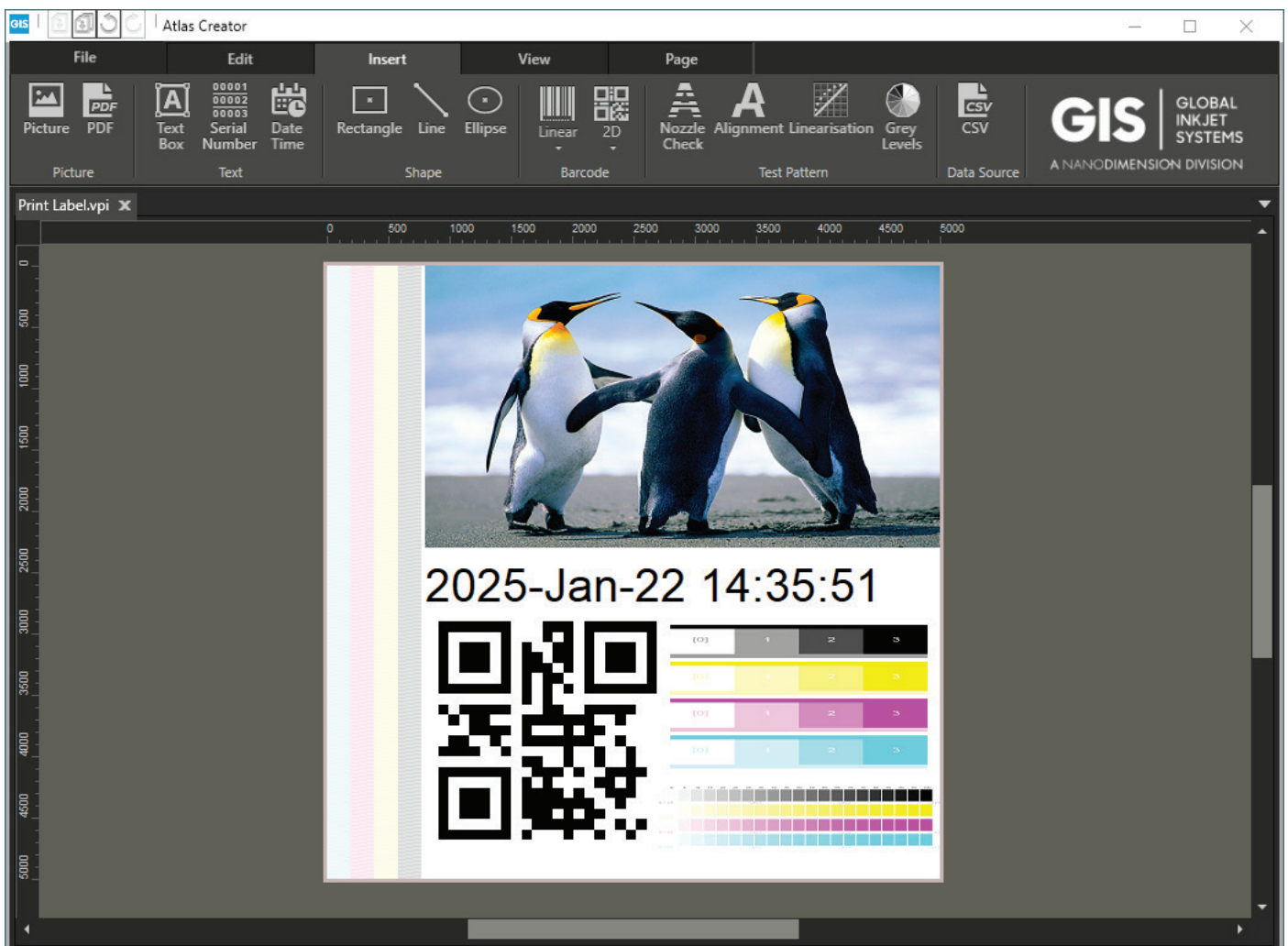
- Graphically rich content produced with Adobe Creative Cloud and other creative applications
- Consumer packaged goods, grocery, electronics, pharmaceuticals etc.
- Customer correspondence, direct mail
- Brochures
- Annual reports
- Books
- Signage
- CAD, GIS maps, architectural blueprints
- Manufacturing - direct to object
- Apparel - direct to garment

Atlas Creator is a stand-alone VPI (Variable Print Interface) file editor. Users can quickly and easily create documents containing a mix of static and variable data for printing on GIS systems (USB and Ethernet platforms).

Supported VPI features

- Configurable test patterns: Nozzle Check, Greylevel, Linearisation and Printhead alignment patterns
- Variable data items: Text boxes, Date-Time text, Barcodes, Multipage PDF
- Simple graphic items: Lines, boxes, ovals

Variable data can be linked to source data text or CSV files or be calculated algorithmically by user configured formulae. Atlas Creator is available in multiple languages: English, German, Spanish, Italian, Japanese, Chinese, Korean, French, Dutch, and Polish.



Adobe PDF Print Engine Highlights

Adobe PDF Print Engine

Adobe PDF Print Engine is the leading rendering technology for print reproduction. It powers workflows in every industry segment, driving over 200,000 presses and proofing presses around the globe: offset, gravure, flexographic, inkjet, electrostatic, and nanographic. Advanced colour technologies ensure efficient and optimal rendering of transparency blending, overprinting, spot colours, trapping, etc. The Adobe PDF Print Engine software is optimised and updated to utilise the latest computer hardware and imaging science fully. Today, the Adobe PDF Print Engine is the fastest platform for rendering complex graphics, Variable Data Printing, and variable item & lot printing.

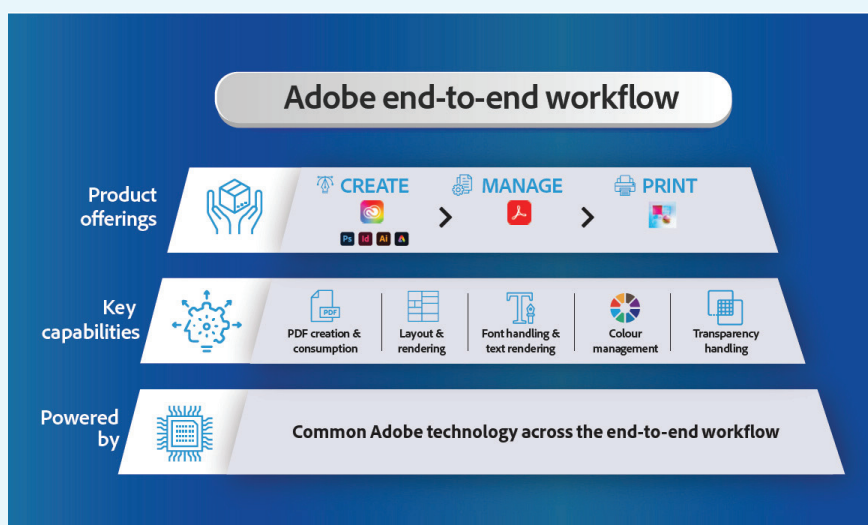
Designers continue to push creative boundaries with the latest features in Adobe Photoshop, Illustrator, InDesign, and Adobe Express. The Adobe PDF Print Engine is guaranteed to render them with full fidelity to the designer's intent on any surface and in any manufacturing cycle.



Key Highlights

- **Colour:** Incorporate the latest colour imaging science into your product
- **Peak performance:** Maximise the efficiency of available hardware resources
- **Print quality:** Bring the designer's vision to life
- **System integration:** Streamline product development & testing
- **Reliable workflow:** The reliability of an end-to-end Adobe workflow with the industry's top rendering platform

Reliability = Predictability + Consistency



Customers who build their print jobs with Adobe applications such as Photoshop, Illustrator, InDesign, and Express benefit from consistent technology across the end-to-end job lifecycle. Using the same Adobe technology to create, manage, and print results in reliable reproduction. PDF Print Engine also excels at rendering jobs created in non-Adobe application.

Core strengths of Adobe PDF Print Engine

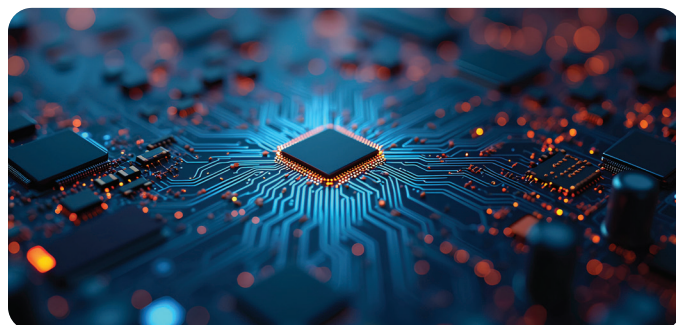


Advanced colour capabilities

- State-of-the-art colour management and powerful colour controls.
- Manage process and special inks.
- Maximise gamut and visual impact by accounting for substrates and inks.

Performant and robust architecture

- Engineered for speed, scalability, and reliability.
- Take full advantage of available system resources to render complex graphics and jobs at record speed.

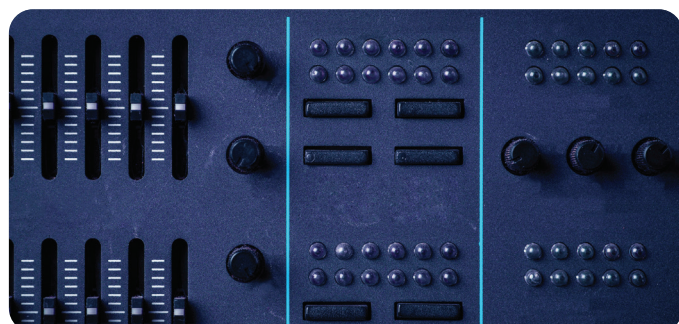


Industry-leading print quality

- Proprietary processing technologies for superior reproduction of every element type: text, graphics, images, and smooth shades, either stand-alone or in combination.

Dynamic workflow capabilities

- Flexibility to support specialised job and device requirements.
- Functionality to address a broad range of job types and production environment workflows.



Power to customise

- Customisable integration points for adding proprietary value.
- Differentiate solutions to build products that stand out.

Contact us

+44 (0)1223 733 733
gis.info@nano-di.com
www.globalinkjetsystems.com

Global Inkjet Systems
Edinburgh House
St John's Innovation Park
Cowley Road
Cambridge
CB4 0DS
UK

Adobe, Adobe Express, the Adobe Express logo, the Adobe PDF logo, Creative Cloud, the Creative Cloud logo, Illustrator, InDesign, Photoshop, and the Photoshop logo are either registered trademarks or trademarks of Adobe in the United States and/or other countries.

GI-004416-WA - Issue 1 - Mar 2025