

For system integrators who embed advanced print capabilities into industrial solutions



Why choose SmartRIP?

- **Plug in. Print fast.**
Integration in days
- **Industrial OPC UA standard.**
Secure by design
- **GPU-native.**
Optimize every core, maximize every process

The world's first GPU-native RIP

SmartRIP™ is purpose built for system integrators who need to embed advanced print capabilities into industrial solutions quickly and securely. With its industrial OPC UA standard interface, SmartRIP delivers secure, interoperable communication designed for modern production environments. Its GPU-native architecture unlocks the full performance of your controller hardware, while straightforward integration means you can be up and running in hours, not months. Plug in. Print fast. Integrate with confidence.

Features & Benefits

Smart Connectivity

Driven by industry-standard OPC UA – Secure, interoperable integration at the core

Secure by design – Built on trusted industrial communication standards

Rapid UI development – Create your own user interface within hours using the OPC UA API

Industry 4.0 enabled – Seamlessly connect with smart manufacturing systems and cloud data services

SmartRIP

Compact footprint – Lightweight and easy to embed

Headless design – No built-in user interface

Instant time to market – Integration in hours, not weeks or months

GPU-native performance – maximizes PC processing power

Cross-platform – runs on both Windows and Linux

Straightforward PDF processing – optimized for single-PDF workflows

Proven hardware integration – drives Meteor Inkjet electronics

Smart Quality

Flexible color support – CMYK plus spot colors for accurate brand and special tones

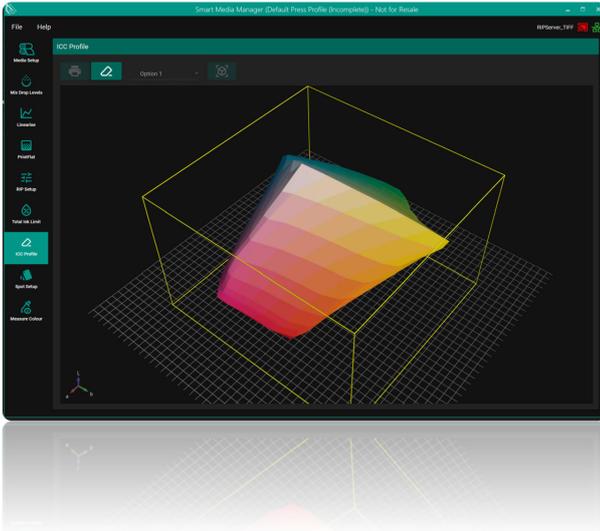
Predefined media libraries – Create and manage media definitions that ensure perfect color and quality every time

Operator-friendly workflows – Empower press operators to deliver top quality without relying on print specialists

Supercharged by ScreenPro™ – Advanced inkjet-specific screens with optional custom screen design services

Powered by PrintFlat™ – Award-winning technology that takes inkjet print quality to the next level

Enhanced by ColorLogic™ – Industry-leading color management tools for precision and consistency



Bring specialist print quality to every production line

Achieve consistent high-quality output and precise color reproduction

In today's printing landscape, achieving consistent high-quality output and precise color reproduction often depends on experienced print operators. However, skilled specialists are becoming increasingly scarce, especially in industries where printing is part of a wider production process and non-specialists are responsible for running presses. SmartRIP addresses this challenge by combining PrintFlat, ScreenPro and ColorLogic technologies into a user friendly and automated system. This enables any operator, regardless of their level of expertise, to achieve excellent print quality with ease and confidence.

Open architecture for flexible printhead integration

SmartRIP is designed to work with virtually any printhead drive electronics and supports a range of common file formats, including PRT and TIFF. New electronics or formats can typically be supported within weeks through a BreakThrough project, ensuring rapid adaptation to evolving requirements. SmartRIP is already fully compatible with Meteor Inkjet electronics, renowned for their broad support across the industrial inkjet market. This flexibility makes it easy to integrate multiple printhead types—even from different manufacturers—within a single press. Meteor Inkjet also provides



a comprehensive suite of tools and services to help achieve high performance and efficient production workflows.



Accelerate to market with our BreakThrough service

Our business model, centered on partnering with you, offers SmartRIP licenses linked to your printer sales, starting when your product is ready for the market. Our objective is to help you launch quickly. Our BreakThrough service adds our expert engineers and scientists to your team, accelerating your product's market launch. You can buy this service in blocks of five days, and half the cost will be balanced against SmartRIP licenses once your press ships. This service is part of our commitment to your success, aiming to reduce challenges and speed up your market entry, benefiting both of us.

Feature comparison table - SmartRIP v SmartDFE

Feature / Category	 SmartRIP for Industrial	 SmartDFE for Industrial
Primary use-case and target	SmartRIP is a lightweight, headless, focused-on-job submission via OPC UA and one job at a time. It is ideal when you simply need to embed RIP capability in an industrial device with minimal UI overhead.	SmartDFE is much more full-featured: job queueing, multiple jobs, media management, job costing, multiple servers, UI + automation, suited for full digital front end/control in printing presses.
Core RIP	Apex™ (GPU)	Harlequin Core™ (CPU)
GUI	No. Headless, OPC UA only	Yes. Full UI (operator / engineer) +OPC UA
Scalable	No. Single RIP PC	Yes. Multiple RIP PC
Multi-job / queue support	No. Single job at a time	Yes. Multiple queues: Waiting, Print, Completed
Extended Gamut	No. CMYK + Spots	Yes. CMYK + OGV + Spots
Media Manager	Yes (via Media Bridge)	Yes
Resolutions	All	All
ICC Profile generation	Yes	Yes
ScreenPro	Yes. Full support	Yes. Full support
Nozzle correction	Yes	Yes
PrintFlat	Yes	Yes
Print-run control	PrintRunStart/Stop, job state monitoring	Advanced print run + queue automation options
RIP Farm	No	Yes
Duplex support	No. Simplex only	Yes. Simplex and Duplex
Job Editor	No	Yes
Autotune™ AI	No	Yes
Job Cost Estimator	No	Yes
Label Studio	No	Yes
Brandable	No	Yes
Log and Support Pack	Yes	Yes
Output types / flexibility	Simple output, TIFF, None and Smart Proof (PDF) and Meteor Inkjet	Rich job metadata, all currently supported output plugins.

Unlock the full potential of your device

Upgrade to SmartDFE - a range of proven and cutting-edge components built for single-pass printing in industrial settings.

AI Accelerated