

A single integrated system to power personalization of statement and marketing collateral printing.



IBM Infoprint Color 130 Plus Full Color Digital Printer

Highlights

State-of-the-art Advanced Function Presentation (AFP) system designed for complex, variable content full-color printing

Production workflow is automated, eliminating operator involvement in the ripping process

System can automatically be restarted on the last page printed — no need to re-run the whole job

AFP manages every object on a page from the output server to print completion, helping to ensure data integrity

Up to 138 full-color impressions per minute with 300 lpi screening for superior print quality

Prints applications utilizing AFP, Adobe PostScript 3 and PDF 1.3

New printer controller incorporates IBM RISC hardware with RIP control software to maximize multiprocessing power

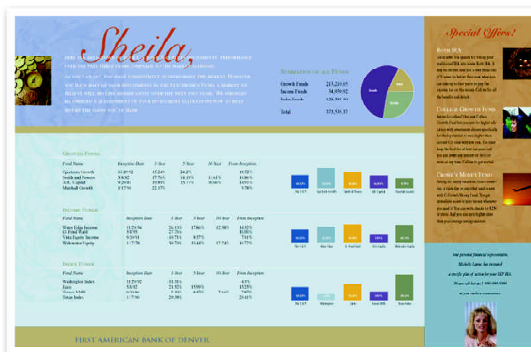
Fully automated density and registration system for more efficient operation and consistent print quality

Groundbreaking technology

The IBM® Infoprint® Color 130 Plus powers personalized communications with groundbreaking technology that provides the ability to print fully variable content pages at very high print speeds and excellent print quality. Support for variable data allows each copy of the print run to be made unique with individualized images and data. This Advanced Function Presentation™ (AFP™) system uses Infoprint Manager for AIX® or Print Services Facility™ (PSF™) for S/390® to manage printing on the Infoprint Color 130 Plus. These technologies can help lower the cost of operation and provide the user with the control, power, and flexibility required by the e-business world.

The way you've always wanted a printer to work

Advanced Function Presentation provides features that can help lower operation costs, ensure data integrity, and simply cause the printer to behave like you've always thought printers should. For example, AFP allows the production workflow to be automated. Traditional color printing systems require operators to manage image objects and the ripping process. The Infoprint Color 130 Plus system manages the caching of image objects and the entire ripping process. Operators do not need to manage RIP servers or track each job from ripping through printing.



Response rates can increase dramatically with variable data pictures, product offerings and text messages that are unique to a specific customer.

IBM patented technology enables powerful RIP and print performance, delivering highly complex, fully variable content at high speeds.

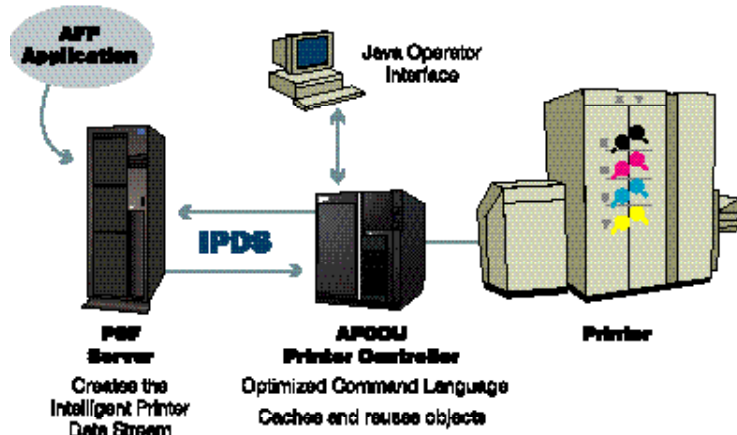
Efficiency in printing variable content

When every page is unique, automatic page level recovery increases printing efficiency. If an error occurs in the middle of a job, AFP page level control allows the job to be continued, starting from the page where the error occurred rather than re-running the job. If a failure occurs on page 4,999 of a 10,000 page job, the job can be restarted or redirected to another Infoprint Color 130 Plus. In either case, because page level error recovery is automated, printing will start on page 4,999 automatically under system control. Page level error recovery, when compared to systems that provide job level recovery, can significantly reduce production costs associated with waste from lost pages and labor required to re-create print jobs.

Data integrity for variable content

For variable content jobs it is crucial that the right data — images, text, fonts, colors — are printed on the right page. AFP provides management of the content so that you know, for example, that each customer's statement printed with the right information on it. Because AFP manages every object from the output

AFP architecture provides high performance



server through the printer, job tickets cannot be mixed accidentally.

Leveraging your investment in PostScript graphics

The Infoprint Color 130 Plus, in combination with IBM's AFP architecture and enhancements to IBM's Infoprint Manager and PSF/MVS™ software, allows you to turn your data into 1:1 marketing tools with graphic arts quality. Variable

data objects created from graphic arts and design applications, including QuarkXPress™, Adobe® InDesign™ and PageMaker® can be used in AFP color applications. The Infoprint Color 130 Plus has the ability to print full-color applications that use EPS (Encapsulated PostScript), TIFF, GIF, and JPEG input as resources for variable data documents.

Support for a broad range of applications

With Infoprint Manager for AIX included in the solution, Infoprint Color 130 Plus can print full-color applications generated in Adobe PostScript® Level 3™ and PDF 1.3. All the benefits of AFP's job management and page level error recovery capabilities are available for full-color PostScript high-volume production applications.

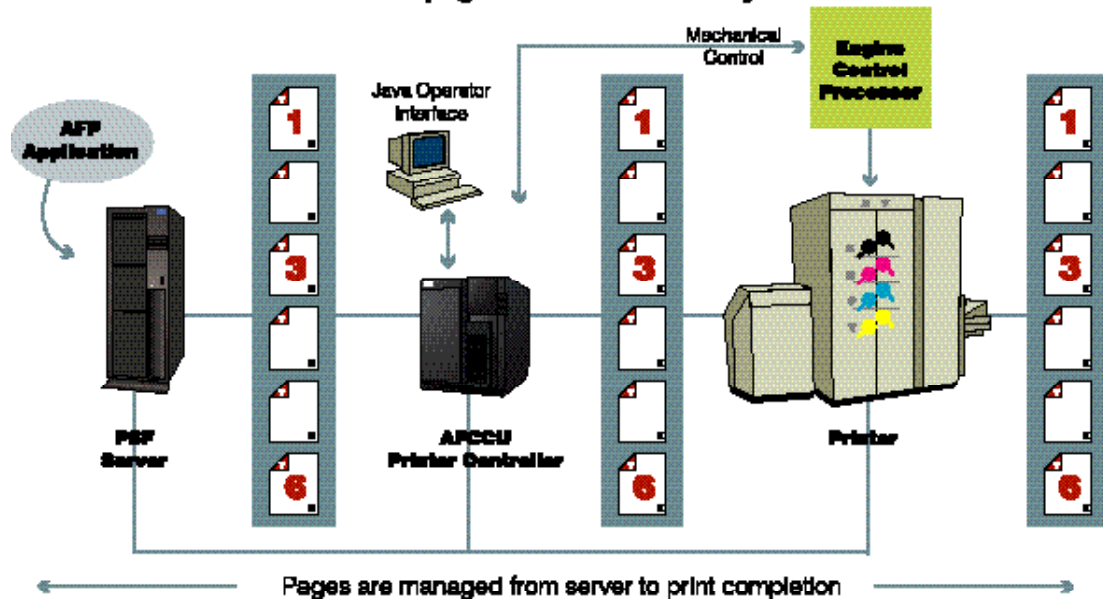
High-throughput, personalized printing

At the heart of the Infoprint Color 130 Plus solution is the Advanced Function Common Control Unit™ (AFCCU™), which supports a broader range of variable content applications on a single system at speeds up to 30 percent faster than our previous offering. Cutting edge technology, the AFCCU printer controller incorporates IBM's latest RISC technology. The controller



The Infoprint Color 130 Plus combines the data integrity and resource management capabilities of AFP with the graphics strength of PostScript.

AFP page-level error recovery



utilizes four 450 MHz processors, with 4 GB of high-speed memory, and 72 GB of high-speed storage. RIP control software utilizes page parallel processing to distribute the RIP workload across the AFCCU's multiple processors. The system manages the raster image processing and caching of objects for superior color system performance.

Excellent print quality

The new Infoprint Color Screen technology developed by IBM for the Infoprint Color

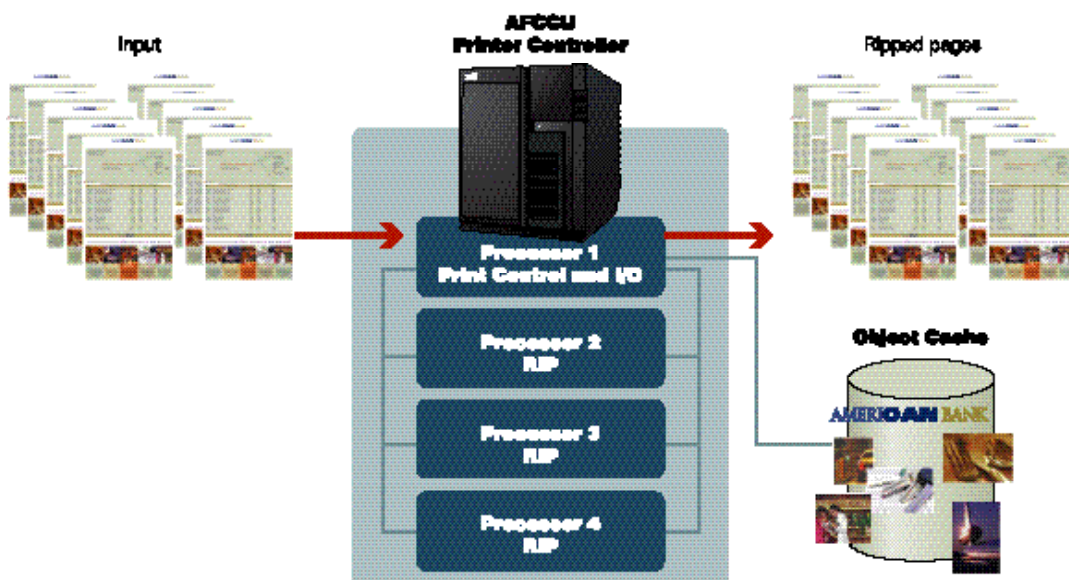
130 Plus provides classic screening at 600 dpi with up to 300 lpi screen resolution on fully variable pages. A screening algorithm developed by IBM Research is implemented on the new color interface card for superior performance. High-quality, continuous-tone image processing is maintained while producing high-speed RIP-and-print throughput.

The print registration and toner density control system of the Infoprint Color 130 Plus can help produce consistent print

quality by automatically measuring every page or a set number of pages. The system can dynamically adjust registration and density without operator intervention.

New toner version 3 delivers better print quality, light fastness and improved process stability. Operation costs can also be lowered since the developer mix can last twice as long as toner version 2.

Parallel page processing



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For more information

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Printed on an IBM Infoprint® Color System Full-Color Digital Printer.

IBM Infoprint Color 130 Plus Full Color Digital Printer at a glance

Print Speed (impressions per minute)	Up to 138 letter size ipm with paper stock < 170 gsm bond Up to 105 letter size ipm with paper stock > 170 gsm bond Linear paper speed of 6.3 in./sec. (16.0 cm/sec.) with paper stock < 170 gsm bond Linear paper speed of 4.8 in./sec. (12.25 cm/sec.) with paper stock > 170 gsm bond																																													
Usage¹	Maximum 700,000 impressions per month																																													
AFCCU III Print Controller	RIP processing — RISC Multiprocessors: 4 way — Processor Speed: 450 MHz — High Speed Memory: 4 GB — SSA DASD: 72 GB — System Memory Bandwidth: 2 GB per second x 3 buses for a total of 6 GB per second																																													
Paper Characteristics	Web-fed roll input: — 60 gsm to 250 gsm — 19.7" to 20" (500 to 508 mm) width — Coated or uncoated media — See IBM Infoprint Color Print Media Guide Output stacker/jogger: — Variable length, cut-sheet delivery — Output lengths from 6" (150 mm) to 39.37" (1,000 mm)																																													
Object Caching	Encapsulated PostScript, Single-Page PDF, Infoprint Color Image																																													
Image Print Quality	Image Bit Depth: 4 bits per spot Line Screening: Classic screening at 212 lines per inch for CMY and 300 lines per inch for K																																													
Print Image Area	Maximum width: 18.7" (475 mm); 17.5" (445 mm) with auto density control																																													
System Attachments	Parallel Channel (RPQ), Gigabit Ethernet, ESCON, FICON																																													
Data Stream Support	AFP/IPDS (Requires separately priced PSF/MVS or Infoprint Manager) PostScript Level 3 (Requires separately priced Infoprint Manager for AIX) PDF 1.3 (Requires separately priced Infoprint Manager for AIX)																																													
Color Management	ICC Color Profiles, PostScript Files/SWOP and Euroscale																																													
Physical Characteristics	<table><thead><tr><th>Component</th><th>Height inch (mm)</th><th>Width inch (mm)</th><th>Depth inch (mm)</th><th>Weight lb. (kg)</th></tr></thead><tbody><tr><td>Paper Supply</td><td>48 (1,200)</td><td>39 (980)</td><td>40 (1,004)</td><td>627 (285)</td></tr><tr><td>Print Tower</td><td>90 (2,280)</td><td>64 (1,620)</td><td>70 (1,760)</td><td>2,475 (1,125)</td></tr><tr><td>Output Jogger</td><td>23 (590)</td><td>39 (985)</td><td>24 (610)</td><td>99 (45)</td></tr><tr><td>Operator Console</td><td>30 (750)</td><td>71 (1,800)</td><td>39 (1,000)</td><td>423 (193)</td></tr><tr><td>Console Computer</td><td>19 (483)</td><td>8 (200)</td><td>21 (530)</td><td>45 (20)</td></tr><tr><td>Monitor</td><td>21 (530)</td><td>20 (508)</td><td>19 (483)</td><td>69 (31)</td></tr><tr><td>Cooling Unit</td><td>20 (508)</td><td>19 (483)</td><td>46 (1,160)</td><td>218 (99)</td></tr><tr><td>AFCCU</td><td>24 (610)</td><td>19 (483)</td><td>28.7 (728)</td><td>209 (95)</td></tr></tbody></table>	Component	Height inch (mm)	Width inch (mm)	Depth inch (mm)	Weight lb. (kg)	Paper Supply	48 (1,200)	39 (980)	40 (1,004)	627 (285)	Print Tower	90 (2,280)	64 (1,620)	70 (1,760)	2,475 (1,125)	Output Jogger	23 (590)	39 (985)	24 (610)	99 (45)	Operator Console	30 (750)	71 (1,800)	39 (1,000)	423 (193)	Console Computer	19 (483)	8 (200)	21 (530)	45 (20)	Monitor	21 (530)	20 (508)	19 (483)	69 (31)	Cooling Unit	20 (508)	19 (483)	46 (1,160)	218 (99)	AFCCU	24 (610)	19 (483)	28.7 (728)	209 (95)
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Options	Parallel Channel (RPQ), Gigabit Ethernet, ESCON, FICON																																													
Power Requirements	208-240V, 3 phase, 60 Hz, 50 amp 380-415V, 3 phase, 50 Hz, 40 amp Power Consumption: 18.5 kVA																																													
Environmental Conditions	Optimal temperature and humidity ranges: Humidity: 27% to 62% RH at 68°F to 28% to 53% RH at 77°F Temperature: 68°F (20°C) to 77°F (25°C) Acceptable temperature and humidity ranges: Humidity: 15% to 65% RH at 59°F to 25% to 50% RH at 77°F Temperature: 59°F (15°C) to 86°F (30°C) Acoustics: 71 dBA/71 bels																																													
Supplies	Toner version 3																																													

¹This figure represents a maximum monthly printing rate. IBM does not recommend printing this monthly maximum on a consistent basis.