

# SAMBA<sup>®</sup> G3L/G5L

Designed for Aqueous, Solvent  
and UV Curable Inks

Fujifilm's FUJIFILM Dimatix SAMBA1200dpi printhead technology provides speed, versatility, and reliability suitable for a broad range of demanding applications. The SAMBA printhead leverages the accuracy and precision of Silicon MEMS (Si-MEMS) fabrication with the reliability and useful life of sputtered PZT in an ingenious parallelogram shape to deliver breathtaking image quality at production speeds.

## Unique Si-MEMS Design

- Superb drop placement accuracy and uniformity for high quality printing
- Broad fluid compatibility (UV, Aqueous, Solvent, Latex)
- Long useful actuator life enabled by sputtered PZT
- Multiple REDIJET<sup>®</sup> Coating (RJC) options including non-wetting coatings and internal protective coatings to meet various application requirements
- Wide range of drop sizes

## Optimized for Single-Pass

- Parallelogram shape provides compact in-line stitching for minimizing printbar depth
- High-frequency with high duty cycle for challenging high productivity applications
- REDIJET<sup>®</sup> — Dual recirculation for reliable jetting & Support fast system start-up
- 600 or 1200dpi modes in process direction
- Grayscale for robust high-quality printing
- Versadrop binary and grayscale jetting with open and editable waveform utility

## Proven Performance in Many Applications

The SAMBA printhead is the proven leader in high-speed applications such as commercial print, textile, label, packaging, and 3D printing. The SAMBA family includes two models providing two native drop size for single-pass applications which demand different ink coverage.

## Support

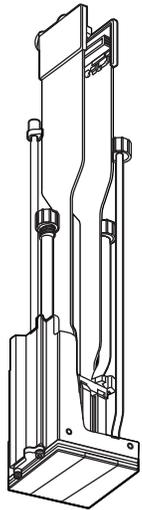
- Backed by exceptional support organization
- Dedicated worldwide field organization to ensure successful product development
- Lab and quality assurance investigative team to ensure satisfaction with FUJIFILM Dimatix products through your product lifecycle

# Technical Specifications

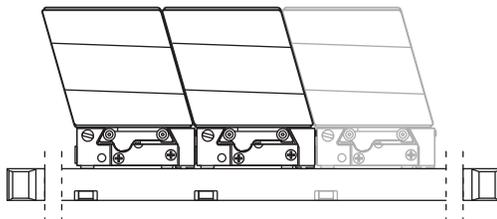
SAMBA G3L/G5L	SAMBA G3L Printhead	SAMBA G5L Printhead
Number of Addressable Jets / Module	2048	
Print Width (mm/in)	43 (1.7)	
Native Resolution (dpi)	1200	
Native Drop Size / Largest Drop Size (pL)	2.4 / 10	3.5 / 13
Versadrop Max Productivity (ng-kHz)	360	450
Firing Frequency (kHz)	Over 100	
Nozzle Plate Technology	Silicon MEMS w/ protective REDIJET coating	
Compatible Fluids	UV, AQ, Latex, Solvents, Other	AQ, Latex, Solvents, Other
Viscosity Range (cP)	4-8 (For Highest Performance)	5-9 (For Highest Performance)
Temperature Control	Fluid Thermal Transfer	
Inkjet Operating Temperature Range (C/F)	Up to 60°C / 140°F	
Integrated Temperature Sensor	Included	
OEM Accessible Non-volatile Memory	64-byte rewritable	

# Physical Characteristics

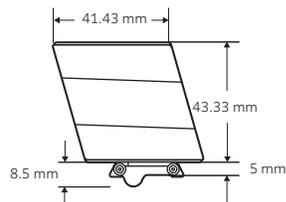
**Axonometric View**



**Printhead Carriage**

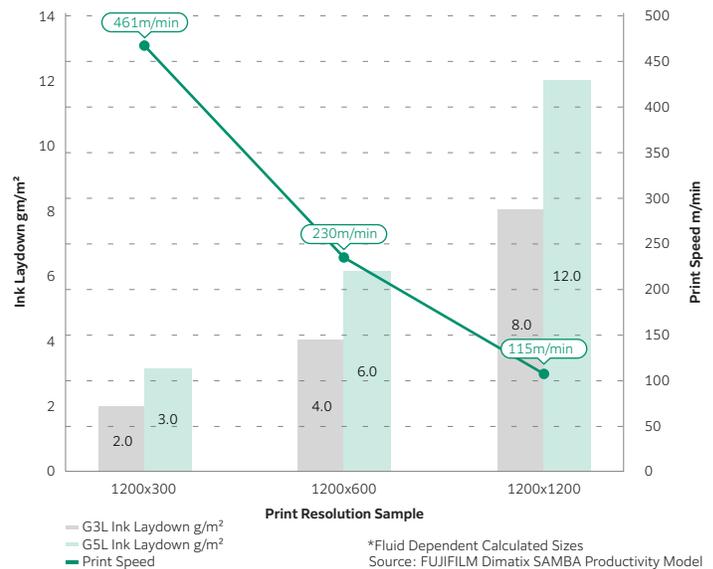


**Printhead Side**



Product characteristics and depictions are not drawn to scale and are general illustrations only. Technical specifications above may vary based on usage conditions and overall system environment

**SAMBA G3L/G5L Technology Productivity\***



For design and engineering work using this SAMBA printhead, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.

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