

Samba™ Printhead Development Kit

Development
Design Tool



Samba Printhead Development Kit

Features:

- Maximum waveform amplitude – 36 V
- VersaDrop™ waveform editor
- One to Four color printing
- Up to Four 2048 jet Samba printheads in each bar
- Electronic print speed – up to 200 kHz (single pulse)
- User Friendly Software for single pass printing
- Easy to learn and use
- RoHS compliant

The Samba Printhead Development Kit provides a solution for evaluating and developing the Samba printhead in a multi printhead configuration, facilitating system development and speeding time to market.

The flexibility of the Samba Development Kit supports multiple printhead configurations, allowing OEM customers to evaluate, test jetting fluids, and develop image quality models to ease printing system development. Each printbar can support up to four Samba printheads for a combined print width of 170 mm (6.69 inches) of a single color. Four color printing requires four separate printbars.

The Samba Printhead Development Kit includes aligned printbar(s), PC, power supply, Samba Drive electronics, cabling, and software. An ink delivery system is available as an option. The Samba Drive electronics is a fully scalable, all inclusive package that consists of the Samba Quad driver boards with heat sink and mounting hardware, Samba Single Pass Fiber Data Pumps capable of supporting up to 8 Samba printheads, and a Data Pump Adapter to simplify Encoder/Trigger connections. The Development Kit is designed to expand the OEM printer manufacturer's capability to assess the Samba technology and its ability to be integrated into complete printing systems.

Supported print configurations include:

- 1 color, up to 4 printheads on one print bar
- 2 color, up to 4 printheads per bar per color
- 3 color, up to 4 printheads per bar per color
- 4 color, up to 4 printheads per bar per color

The comprehensive support package includes a quick-start guide, user documentation, phone support, and a one year warranty.

The Samba Printhead Development Kit is RoHS compliant.

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FUJIFILM Dimatix is the world leader in the manufacture of drop-on-demand inkjet products and technologies with over 870 patents since its inception as Spectra Corporation in 1985. We provide exceptional products and customer support.

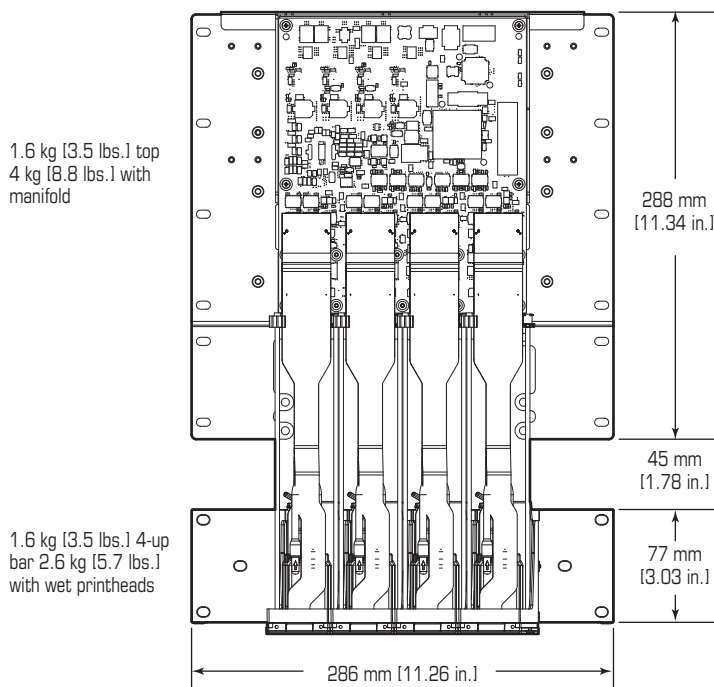
Parameter	Samba Printhead Development Kit
Maximum drive frequency	200 kHz (waveform dependent)
Waveform	1 or 2 bit waveforms that are fully programmable*
Maximum number of printheads per printhead	4
Maximum number of printheads per kit	4
Number of colors printed	1 - 4
Image file format	1-bpp BMP, 1-bpp TIFF, 2-bpp TIFF
Operating System	Windows 7 64-bit
Maximum printhead operating temperature	60° C **
Relative humidity	50% RH noncondensing

* Waveforms can be developed using evaluation kit or the waveform editor.

** The heating of printheads is done through the optional heated ink manifold.

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Physical Characteristics



Models & Product Options

Product Options

- Ink supply/recirculation system (1 required for each color)
- Heated or unheated ink manifold
- Upgrade kit (converts 1-color kit into a 4-color kit)
- Samba G3L printhead (not included in the kit)
- Bundled option with Evaluation Kit

Product data presented above are for guideline purposes only. For design and engineering work using this product, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.

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