Samba™ Printhead Development Kit

Development Design Tool

Samba Printhead Development Kit

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). Additionally, the system is available in an 8 printhead configuration with a combined print width of 240 mm (13.38 inches). Each printbar supports single color operation, however the software will support up to four colors if multiple bars are used.

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 are 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.

Features:

- VersaDrop™ waveform editor
- One to Four color printing
- Four or Eight 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

Supported print configurations include:

- 1 color, up to 8 printheads on one print bar
- 2 color, up to 8 printheads per bar per color
- 3 color, up to 8 printheads per bar per color
- 4 color, up to 8 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.

FUJIFILM Value from Innovation

Dimatix

FUJIFILM Dimatix is the world leader in the manufacture of drop-on-demand inkjet products and technologies with over 1000 patents since its inception as Spectra Corporation in 1985. We provide exceptional products and customer support.

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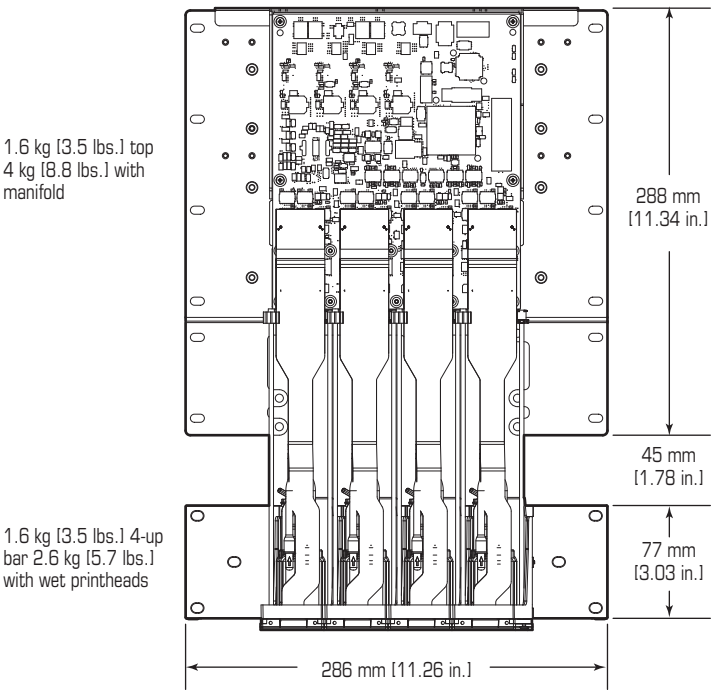
Product Data

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 printbar	8
Maximum number of printbars per kit	8
Number of colors printed	1 - 4
Image file format	1-bpp BMP, 1-bpp TIFF, 2-bpp TIFF
Operating System	Windows® 10, 64-bit
Maximum printhead operating temperature	60° C
Relative humidity	50% RH non-condensing

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

Windows® is either a trademark or registered trademark of Microsoft Corporation in the U.S.A and/or other countries.

Physical Characteristics



Models & Product Options

Product Options

- Additional printbars (4 or 8 module)
- Ink supply/recirculation system (1 per color)
- Samba G3L printhead (not included in the 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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