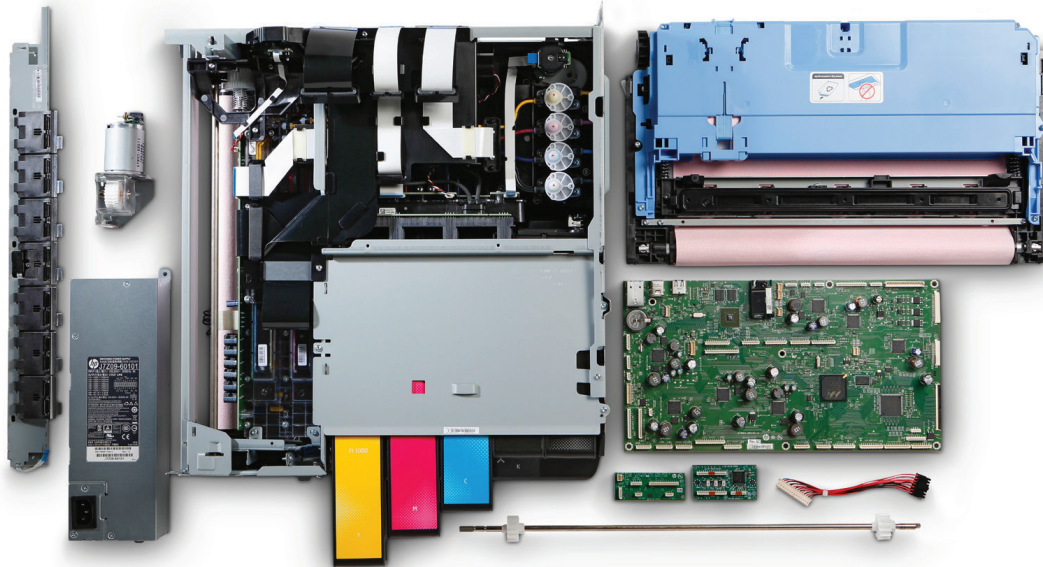




HP OEM Fixed Imager 1000

Fast, versatile, durable pigment ink



HP PageWide technology printhead with 297 mm (11.7 in) print width

HP pigment ink

CMYK individual ink supplies

Print speed up to 457mm/s (18ips)

Standard connectivity:

One high-speed USB 2.0 device port plus one 10/100/1000 Base-T Ethernet port

5 GPIOs, 3 GPIs, and 2 GPOs plus a door, power, Top of Form and media path quadrature encoder inputs

CMYK contone raster input format via HP-provided Windows DLL

Above-media-path service station for nozzle health, wiping, and capping

The HP OEM Fixed Imager 1000 (FI-1000) offers OEMs proven HP PageWide technology in a set of sub-assemblies and reference designs for building a fast, A3 (297 mm / 11.7 in), full color inkjet solution.

Fast

HP FI-1000 produces best-in-class speed with its fixed head solution and straight through print path design. It supports print speeds up to 457 mm/s (18ips) for a variety of industries on inkjet transport bases, as needed for direct mail printing, specialty boxes and packages, labels, and much more.

Easy to customize

The FI-1000 is a collection of sub-assemblies, providing numerous options for OEMs to build customized solutions. The Bar-in-Box (BnB) printbar is the centerpiece of the solution. This self-contained and easily replaceable unit is comprised of the printhead, service tray, ink delivery system (IDS) and the printhead elevator. The service tray is also available separately. The rest of the subassemblies include a main printed circuit assembly (MPCA), optional power supply, left rear upper PCA, service sled drive, ink short detection PCA, service station drive shaft assembly, upper paper guide and assorted cables. The FI-1000 comes with many reference designs that allow you to speed up design and manufacturing time. The FI-1000 is mounted onto the media path to provide a Top of Form input, Cover Open input, Power on/off input, and GPIOs to enable customization and integration options. Also available are 3.3V, 5.1V, and 12V outputs.

Durable pigment ink

HP pigment inks have been thoroughly tested to ensure durability, reliability, and quality. The HP 990 pigment ink used in the FI-1000 has been tested at Research Institutes of Sweden AB (RISE), an international organization that tests according to ISO 11798. The inks are certified for resistance to light, water, and abrasion.¹ HP pigment inks adhere to porous media so well that they received the BS5609 Section 3 certification having survived five weeks of sloshing cold salt water.²

Sample applications include:

- Specialty packages - Custom gift and shopping bags, wooden planks, beverage carriers
- Small and midsize boxes - Full color product packaging, gifts, shipping
- Post cards and envelopes - #10, large manila, bubble, and padded
- Labels - Roll to roll or flat paper path
- Corrugated boxes - Alternative to adhesive color labels on manufacturing lines
- Various - Coasters, textiles



Tabletop class

The HP FI-1000 offers a robust tabletop full color solution able to print multiple liters of ink through a single printbar. Replaceable ink supplies enable cost-effective printing with minimal interventions.

The FI-1000 is a proven fixed imager that uses advanced color thermal inkjet technology (TIJ). It provides a rugged platform with design specs that support a metal base plate. This allows you to mount the print mechanics in a variety of configurations to suit your needs.

This print engine is perfect for OEMs who:

- Can handle images up to 91.44 cm (36 in) long and unlimited print job length (limited only by ink availability)
- Want a rugged development platform already tested and validated with proven HP expertise
- Value the advantages of TIJ and the competitive edge that comes from partnering with a recognized technology leader

Media path and integration options

The FI-1000 can be integrated onto any flat media path using the reference designs provided. OEMs can tailor the printhead to table base spacing according to application requirements and media thickness, enabling printing on folded or unfolded boxes.

With an integrated service station located above the media path, no special provisions are required in the media path for nozzle health, wiping, or capping

Wide-ranging print zone

The FI-1000 is designed with a 297 mm (11.7 in) print zone, which supports a wide range of media sizes. Media sizes larger than 11.7 in are possible with the appropriate OEM design and media path. This wide-ranging print zone capability makes the FI-1000 a highly versatile solution.

Software integration

The CMYK contone raster format gives you control over the color output to best meet the desired rendering intents. A feature-rich command/status interface is also available to perform functions and get status from the printer.

With an offline scanner, HP-provided Windows DLL files are used for printhead alignment and





Color print quality

The FI-1000 offers a four-color ink system to provide an optimal combination of print quality and performance suitable for most applications. This technology uses a pigment-based ink set to produce high-quality, durable images and crisp, laser-like text.¹

HP's high print quality print cartridges offer:

- **Versatility** – Prints on a wide range of porous media types.
- **Permanence** – HP pigment ink provides resistance to light, water and abrasion.¹
- **Photo quality** – The four-color ink system produces long-lasting, brilliant colors.
- **Proven reliability** – HP's worldwide recognition for product quality, reliability, and service creates a winning combination for you as an OEM partner.
- **Ease-of-use** – Simple, quick replacement minimizes downtime.
- **Economical output** – Efficient ink delivery system provides a low cost-per-print advantage.
- **Revenue stream** – Restricted SKUs available only through licensed OEM partners.



Versatile, economic, high-quality ink cartridges

The FI-1000 works with OEM generic ink supplies only. The printhead and ink supplies offer all the advantages of HP's latest inkjet technology. Thousands of tiny nozzles allow high-quality printing at high speeds.

Precise ink drop placement produces consistently superb image and text quality in color and black-and-white on a wide variety of media. HP offers OEMs the tools to custom-key their supplies to protect supplies revenue.

Reference designs

Instead of full imaging solutions, HP provides reference designs and technical support to OEM partners for higher integration flexibility, particularly for servicing, drying, and paper path designs. OEMs can create completely customized solutions for a variety of specialized commercial printing applications.

HP engineering expertise and support

HP works with you to quickly adapt and customize this fixed imager to meet your market needs. These products provide a high return on investment compared to standard consumer printing platforms.

1. See RISE certificate for a representative pigment ink set <http://publiccert.extweb.sp.se/en/Product/Index/450438>

2. Based on testing performed by Smithers. Printed label material conforms to BS 5609:1986 Section 3. A certificate can be provided per request.

HP OEM Fixed Imager 1000 (FI-1000) Specifications

Product offering	HP PageWide printer sub-assemblies based on proven technology with custom firmware, software, and optional Class I external power supply to ease product integration		
P/N      	4CC91A OEM FI-1000 Page Wide Bar in Box (BnB)		4CC97A OEM FI-1000 Svc Station Driveshaft Assy
	4CC92A OEM FI-1000 Service Tray		4CC98A OEM FI-1000 Ink Short Detection PCA
	4CC93A OEM FI-1000 Main PCA Board Assembly		4CC99A OEM FI-1000 Power Supply
	4CC94A OEM FI-1000 Service Tray Motor		4CD00A OEM FI-1000 Pwr Sply Main PC Board Cable
	4CC95A OEM FI-1000 Lft Rear Upr PC Board		4CD01A OEM FI-1000 Upper Paper Guide Assembly
	4CC96A OEM FI-1000 Left Rear Upper FF Cable Kit		
Print speed	Up to 457mm/s (18ips) depending on print quality setting, coverage, media size, and page gap. Approximate speed examples: #10 envelopes = 175 prints per minute (10K prints per hour) - Letter size (215.9 mm x 279.4 mm / 8.5 in x 11 in) = 90 prints per minute - A3 = up to 60 prints per minute		
Print quality	Two print modes offer superior print resolution up to 1200 dpi for professional text and graphics quality		
Resolution	High Resolution Mode: 1200 x 1200 optimized dpi from 600 x 600 input dpi. Production Mode: 600 x 1200 optimized dpi from 300 x 300 input dpi. Production Fast Mode: 600 x 1200 optimized dpi from 150 x 300 input dpi.		
Image format	CMYK contone raster data, 600, 300 or 150 DPI, formatted for print engine via HP-provided Windows DLL RGB PCL3GUI contone raster data.		
Connectivity	One high-speed USB 2.0 device port, one 10/100/1000 Base-T network port (Wi-Fi is not supported), power button input, Top of Form input, quadrature encoder input, 5 GPIOs, 3 GPIs and 2 GPOs via three FFC cables.		
Printer ID customization	Device ID 'CID' field mapped to configurable driver plus programmable serial number, manufacturer, brand name, model name, model number, and USB VID/PID (no USB device ID string status extensions)		
NVRAM customization	Programmable OEM fields		
Supported image lengths	2.54 cm – 91.44 cm (1 in - 36 in)		
Printer behavior customization	- Customize the fixed imager's mechanical behavior via scripts - Trigger printer actions via GPIOs - Trigger printer actions via PC software over software-firmware interface from PC		
Available printer status	- Available via software-firmware interface over USB and Ethernet - Includes printer error codes and estimated ink cartridge ink level		
Power supply	- Optional Class I (3-wire) LPS universal power supply, external, 33V / 215W nominal output (P/N 4CC99A) 3.3V, 5.1V and 12V (12V output is 6W, 5.1V output is 640mW, 3.3V output is 1.65W) provided via OEM connector on Main PCA		
Operating environment	- Operating temperature range: 15°C to 30°C (59°F to 86°F) - Operating humidity range: 15% to 80% RH (non-condensing), 20% to 80% recommended - Storage temperature range: -40°C to 60°C (-40°F to 140°F) - Non-operating humidity range: 10% to 90% (non-condensing)		
Drop detection	Windows executable using offline scanner (OEM provided) and print then scan process		
Dimensions (cm)	(L x W x H) 40.8 x 44.6 x 22.7 for the BnB only		
Weight (kg)	6.6 for the BnB only		

HP OEM Fixed Imager 1000 (FI-1000) Specifications

Printhead	HP PageWide technology TIJ4 printhead, replaceable as part of BnB		
Print Swath	297 mm (11.7 in)		
Nozzle Count	59136 (4224 x 14)		
Resolution	1200 nozzles per inch, per color		
Average Drop Volume	10 pl K, 8.5 pl CMY		
Ink Supplies P/N 	3UB06A OEM FI-1000 Cyan Cartridge	3UB08A OEM FI-1000 Yellow Cartridge	
	3UB07A OEM FI-1000 Magenta Cartridge	3UB09A OEM FI-1000 Black Cartridge	
Ink cartridge type	Individual ink supply		
HP ink type	Pigmented aqueous ink		
Ink fill (ml)	Approximately 505 black, 237 cyan, 233 magenta, 225 yellow		
Dimensions (L x W x H)	21.1x9.45x4.4 cm Black, 21.1x4.7x4.4 cm Cyan, Magenta, Yellow		

Learn more at

hp.com/go/oeminkjet

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