

HP TIJ 1.0 Print Cartridges



The HP 51604A, 51605B, and 51605R thermal inkjet print cartridges provide a low-cost solution for a broad range of transaction and industrial printing applications.



Features

HP's original line of thermal inkjet print cartridges is ideal for a wide range of transaction and industrial printing applications that require compact size and low power consumption. Each disposable print cartridge includes a print head with a self-contained ink reservoir for simple, reliable operation and replacement.

Non-contact drop-on-demand inkjet technology delivers quiet printing on irregular surfaces at variable distances with consistent print quality over the life of the print cartridge. Water- and fade-resistant inks in a variety of colors (black, red, and blue) provide the kind of permanence that transaction and industrial printing applications require.

Recent improvements to the ink delivery system allow reliable printing in a variety of orientations with improved consistency. This robust design exceeds the requirements of demanding environments where transaction and industrial printing applications are used.

A simple nozzle-firing interface allows for simple integration into your printing device. Integration is further simplified with the available print carriage assemblies and technical design documentation available directly from HP.

Benefits

HP TIJ 1.0 print cartridges offer:

- An overall low-cost solution when compared to competing technologies.
- Reliable, consistent printing over the life of the cartridge.
- Compact form factor and low power consumption.
- Easy, snap-in/snap-out replacement.
- Non-contact, drop-on-demand thermal inkjet technology that provides quiet printing.
- Inks designed for printing permanence on a variety of commonly used transaction and industrial media.
- A robust ink delivery system for demanding printing environments.
- HP engineering support and expertise to simplify integration.

Why choose HP?

HP is the worldwide leader in imaging and printing technologies. We bring our innovative, reliable, environmentally-responsible, and easy-to-use solutions to a variety of transaction and industrial markets. As pioneers of thermal ink jet technology, HP knows the technology inside and out.



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Frequently asked questions

Who are the ideal users of the TIJ 1.0 line of print cartridges?

Companies who produce printers across a broad range of print applications where size and low power consumption are key requirements.

What are the key advantages of these print cartridges?

- Water- and fade-resistant inks provide the print permanence that record keeping and transaction receipts require.
- Compact size and simple operation reduce printing costs.
- Very low pen-servicing requirements and direct-drive nozzles make integrating these print cartridges into new and existing products easy and problem-free.

What are the advantages of HP Thermal Inkjet (TIJ) Technology?

- Cost-effective. Requires no warm-up cycle and no downtime. When it's time to replace a print cartridge, replace only the one that's needed.
- Easy to use. No special training is required to operate and maintain thermal inkjet printers. The print cartridge design allows it to be snapped in and out for easy replacement.
- Fast. Tiny nozzles firing at a high frequency allow quality printing at high speeds.
- Reliable. TIJ is less sensitive to air bubbles in the firing chamber than other printing technologies, avoiding print quality problems and delays caused by trapped air.
- Flexible. Supports a wide variety of media.
- Environmentally responsible. With thermal inkjet, there is no need for service technicians qualified to handle volatile solvents, and no noxious fumes.
- Lower cost of ownership. A thermal inkjet printer can cost hundreds of dollars less than other printing equipment, reducing the market entry cost.

Technical specifications

P/N	51604A (black, quick-dry ink), 51605B (blue), 51605R (red)
Ink type	Black, blue, and red dye-based, aqueous ink
Resolution	96 dpi
Nozzle count	12
Print swath	.125 in
Maximum firing frequency	.625 kHz for high-density printing using the HP 51604A; 1.25 kHz for the HP 51605B, and HP 51605R
Print cartridge dimensions	~ 36 x 28 x 25 mm
Avg. drop volume	220 pl
Avg. delivered ink (ccs)	~ 3 ccs (~750,000 characters)
Number of electrical interconnect pads	13
Operating conditions	10 to 40° C, 10 to 80% RH for the 51604A; 20 to 40° C, 30 to 80% RH for the 51605B, and 51605R
Shipping/storage conditions (in original packaging only)	-5 to 55° C. Can only exceed operating range for 24 hours. Altitude: 0–3000 meters

Contact information

To discuss inkjet technology OEM opportunities with HP:

- Go to www.hp.com/oeminkjet and send us an email message.
- Call 858-655-3524 and leave a voicemail message.
- Mail your inquiry to: Hewlett-Packard Company, Specialty Printing Systems, Mailstop 66-654, 16399 West Bernardo Drive, San Diego, CA 92127, USA.