

HP LaserJet 8100 Series and 8100 MFP Printers - Product Specifications

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Model numbers

Printer	Model #	Description
HP LaserJet 8100	C4214A	The HP LaserJet 8100 printer comes standard with 16 MB RAM, wide format printing, two 500-sheet trays, and a 100-sheet multipurpose tray.
HP LaserJet 8100n	C4215A	The HP LaserJet 8100n printer comes standard with 16 MB RAM, wide format printing, two 500-sheet trays, a 100-sheet multipurpose tray, and an HP Jetdirect 600N print server.
HP LaserJet 8100dn	C4216A	The HP LaserJet 8100dn printer comes standard with 24 MB RAM, wide format printing, two 500-sheet trays, a 100-sheet multipurpose tray, an HP Jetdirect 600n print server, and a duplexer (for printing on both sides of paper).
HP LaserJet 8100 MFP	C8065A	The HP LaserJet 8100 MFP printer comes standard with 56 MB RAM, wide format printing, two 500-sheet trays, a 100-sheet multipurpose tray, an HP Jetdirect 600n print server, a 3,000 Sheet Stapler/Stacker (C4788A), a 2,000 Sheet High Capacity Input Tray (C4781A), an HP Digital Copy Module Stand (C4231A), and a duplexer (for printing on both sides of paper).

Serial number location

The serial number is located on the back of the HP LaserJet 8100 series printer.

Printer description

The HP LaserJet 8100 series printers combine the latest technologies with exceptional performance to give you hassle-free network printing for medium to large departments.

HP LaserJet 8100 series printers have new features that can provide outstanding output with a variety of media- and paper-handling options, help improve performance while minimizing network traffic, and reduce your overall cost of ownership.

Printer specifications

Speed and throughput

- RIP ONCE technology
- 32 pages-per-minute (ppm)
- 166 MHz MIPS microprocessor

Resolution

- 600 dots-per-inch (dpi) with Resolution Enhancement technology (REt)
- FastRes 1200 provides 1200 dpi quality at full speed
- More than 220 levels of gray

Memory

- 16 MB (HP LaserJet 8100 and 8100n printers), 24 MB (HP LaserJet 8100dn printer), or 56 MB (HP LaserJet 8100 MFP) of SDRAM*, expandable using industry standard 100-pin DIMMs (Dual In-Line Memory Modules) to a maximum of 192 MB.

NOTE: EDO memory may be used with the SDRAM memory, but the SDRAM will not reach its full capabilities when mixed with EDO memory.

NOTE: There is a Firmware DIMM that *must* be installed only in Slot 1 or the printer will not function.

- Memory Enhancement technology (MEt) automatically compresses data to use RAM more efficiently.
- The HP LaserJet 8100 and 8100n printers come with 8 MB of SDRAM on the formatter and an 8 MB SDRAM DIMM for a total of 16 MB.
- The HP LaserJet 8100dn printer comes with 8 MB of SDRAM on the formatter and a 16 MB SDRAM DIMM for a total of 24 MB.
- The HP LaserJet 8100 MFP comes with 8 MB of SDRAM on the formatter and a 48 MB SDRAM DIMM for a total of 56 MB.

Language and fonts

- HP PCL 6
- HP PCL 5e for compatibility
- Printer Job Language (PJM)
- Printer Management Language (PML)
- 45 scalable TrueType typefaces
- 65 fonts with HP FontSmart (not available for Macintosh)
- PostScript (R) Level 2 Emulation standard

Paper handling options

Input

- Tray 1: A multipurpose tray for paper, transparencies, labels, and envelopes that holds up to 100 sheets of paper
- Trays 2 and 3: Two 500-sheet trays that automatically sense paper size
- Optional 2 x 500-sheet Input Tray (Trays 4 and 5): Two 500-sheet trays that automatically sense paper size
- Optional 2000-sheet Input Tray (Tray 4): One 2000-sheet tray that automatically senses paper size
- Optional Duplex Printing Accessory: Provides two-sided printing (both sides of paper)
- Optional Envelope Feeder: Automatically feeds up to 100 envelopes
- Custom Paper Tray: Allows printing on custom-sized paper. Holds up to 500 sheets of paper.

Output

- Standard Output Bin: Holds up to 500 sheets of paper. Automatically senses when full.
- Face-up Bin: Holds up to 125 sheets of paper. Provides the best results when printing transparencies, labels, and envelopes.
- Optional 5-bin Mailbox with Stapler: Each of the 5 bins holds up to 250 sheets of paper. Provides job separation by stapling jobs.
- Optional 8-bin Mailbox: Each of the 8 bins holds up to 250 sheets of paper.
- Optional 7-bin Tabletop Mailbox: Each of the 7 bins holds up to 120 sheets of paper. Designed for tabletop printing. An optional stand is also available to use with this mailbox.
- Optional 3000-sheet stacker and 3000-sheet stapler/stacker for high volume

printing. This offers job offset stacking.

Connectivity

- 3 EIO (enhanced input/output) slots
- Optional HP Jetdirect EIO cards, Ethernet (10Base-T, 10Base2), Local Talk, Token Ring, Fast Ethernet 10/100Base-TX (bundled with HP LaserJet 8100 DN printer)
- Parallel
- HP Fast InfraRed Connect (fast infrared connection)

Environmental features

- EconoMode reduces toner consumption
- Power Save setting saves energy (meets Energy Star guidelines)
- High content of recyclable components and materials in the printer

Software information

Client Software		Network Administrator Software	
Windows	Macintosh	Windows	Macintosh
Drivers	Apple LaserWriter 8 Driver	HP Jetadmin	Apple LaserWriter 8 Driver
HP Toolbox	PPDs	Drivers	PPDs
HP FontSmart [1]	HP LaserJet Utility [1]	HP FontSmart [1]	HP LaserJet Utility [1]
HP DocWise		HP LaserJet Resource Manager	Fonts [1]
HP Jetsend			Desktop Printer Utility [1]
			Guide files [1]

[1] These products are not supported in Traditional Chinese, Simplified Chinese, Korean, and Japanese.

The printer drivers are provided on one compact disc and must be installed to take full advantage of the printer's features. The other software programs are recommended, but are not required for operation. See the readme file for more information.

The most recent drivers, additional drivers, and other software are available from the Internet. Depending on the configuration of Windows-driven computers, the installation program for the printer software automatically checks the computer for Internet access to obtain the latest software. If you do not have access to the Internet, see the "HP Customer Care" section at the front of the online user's guide to obtain the most recent software.

Included with the printer is a compact disc, containing the HP LaserJet Printing System. The Printing System includes software designed for end users operating in the following environments:

- Microsoft (R) Windows 3.1x
- Microsoft Windows 95/98
- Microsoft Windows NT 4.0
- IBM OS/2 version 2.0 or greater
- Apple Mac OS 7 or greater

Included with the printer

Printer drivers access the printer features and allow the computer to communicate with the printer (using a printer language).

- PCL 6
- PCL 5e

- PostScript drivers
- HP Jetadmin Utility - Printer management software provides easy printer setup, use, and management
- HP FontSmart Utility - A font management program for the Windows environment
- HP ToolBox Utility
- HP DocWise Utility
- HP Resource Manager - Software tool for downloading fonts, forms, and macros to an optional hard disk. (Recommended for installation on the network administrator's computer only. Requires bidirectional communication).
- HP De-Installer Utility
- HP Disk Image Maker Utility
- Internet Installer
- HP Web Jetadmin software is available from HP's Web site: www.hp.com/go/webJetadmin

Windows environments

Within the computer installation program, select Typical Install to install the PCI 5e, PCL6, and PS drivers and HP FontSmart. Select Custom Install to install only the software you prefer, or if you are a network administrator. Select Minimum Install to install only the PCL 6 driver for basic printing.

Macintosh environments

The PostScript driver is the only driver available on a Macintosh system.

Click Install to install the HP LaserWriter 8 driver, PPDs, PDFs, online help, HP LaserJet utility, and Desktop Printer utility. Click Custom to only install the software you prefer.

DOS drivers

Drivers for DOS WordPerfect 5.x and 6.x and AutoCAD are available on the CD-ROM.

Physical specifications

Category	Specification
Dimensions	8100, 8100n, and 8100dn: 21.30 x 22.3 x 20.5 inches
(H x W x D)	(541 x 566.42 x 520 mm)
	8100 MFP: 43 x 25 x 64 in
Weight	8100 and 8100n: 112 lbs (51 kg)
(without print cartridge)	8100dn: 120 lbs (54 kg)
	8100 MFP: 348 lbs
Print Speed	Simplex
	32 ppm (letter, A4)
	17 ppm (ledger)
	18 ppm (A3)
	20 ppm (legal)
	Duplex
	12 ppm (letter, A4)
	8.4 ppm (ledger, A3)
	9 ppm (legal or B4)
Paper Input Bin Capacity	Tray 1 = 100 sheets Tray 2 = 500 sheets

	<p>sheets Tray 3 = 500 sheets</p> <p>Optional 500-sheet Tray (Trays 2 and 3)</p> <p>Optional 2000-sheet Tray (Tray 4)</p> <p>Optional Envelope Feeder = up to 100 envelopes</p>
Paper Output Bin Capacity	<p>Standard Output Bin (face down) = 500 sheets</p> <p>Face Up Bin = 100 sheets</p> <p>5-bin Mailbox with Stapler and 8-bin Mailbox = up to 250 sheets per bin</p> <p>7-bin Tabletop Mailbox up to 120 sheets per bin</p>
Minimum Paper Size	3.9 x 7.5 inches (98 x 191 mm)
Maximum Paper Size	11.7 x 17.7 inches (297 x 450 mm)
Supported Paper Weights	<p>Tray 1: 16 to 53-lb (60 to 199 g/m²) Bond; 33 lb to 110 lb. Index (through left output bin only)</p> <p>Trays 2, 3, 4, or 5: 16 to 28-lb (60 to 105 g/m²)</p> <p>Two-sided: 16 to 28-lb bond (60 to 105 g/m²)</p>
Base Memory	<p>16 MB (HP LaserJet 8100 and 8100n printer) SDRAM, 24 MB (HP LaserJet 8100dn printer) or 56 MB (HP LaserJet 8100 MFP) of SDRAM, expandable using industry standard 100-pin DIMMs (Dual In-Line Memory Modules)</p> <p>There is a Firmware DIMM that must be installed only in Slot 1 or the printer will not function.</p> <p>Memory Enhancement technology (MEt) automatically compresses data to use RAM more efficiently</p>
Memory Expansion	<p>The printer has three dual in-line memory module DIMM) slots for upgrading.</p> <p>There is a Firmware DIMM that must be installed only in Slot 1 or the printer will not function.</p> <p>More printer memory. DIMMs are available in 4, 8, 16, 32, and 64 MB, for a maximum of 192 MB.</p> <p>Flash memory DIMMs, available in 2 and 4 MB. Unlike standard printer memory, flash DIMMs can be used to permanently store downloaded items in the printer, even when the printer is off.</p> <p>DIMM-based accessory fonts, macros, and patterns.</p>
Print Resolution	<p>600 dots-per-inch (dpi) with Resolution Enhancement technology (REt)</p> <p>FastRes 1200 provides 1200 dpi quality at full speed</p> <p>More than 220 levels of gray</p>
Duty Cycle	Up to 150,000 pages-per-month

Electrical specifications

Printer State	Power Consumption (average, base unit)	Power Consumption (average, fully configured unit)
Printing	700 Watts	710 Watts
(100-127V units)	710 Watts	720 Watts
(220-240V units)		
Standby	145 Watts	155 Watts
(100-127V units)	145 Watts	155 Watts
(220-240V units)		
PowerSave 1	30 Watts	38 Watts
(default activation time 60 minutes)	32 Watts	(100-127V units)

		40 Watts (220-240V units)
PowerSave 2	20 Watts	22 Watts (100-127V units)
(default activation time 10 minutes after Power Save 1 starts, if nothing else happens)	22 Watts	24 Watts (220-240V units)
Off	0 Watts	0.25 Watts (100-127V units) 0.25 Watts (220-240V units)

Minimum Recommended Circuit Capacity

100-127 Volt	15.0 amps
220-240 Volt	6.5 amps

Power Requirements (Acceptable Line Voltage)

100-127 volts (+/- 10 percent)	50/60 Hz (+/- 2 Hz)
220-240 volts (+/- 10 percent)	50 Hz (+/- 2 Hz)
220 Volt (+/- 10 percent)	60 Hz (+/- 2 Hz)

Acoustic Emissions (Per ISO 9296)	Operating (Printing) [1]	Power Save 1 / Standby	Power Save 2
Sound Power Level	6.9 Bel	5.2 Bel	Inaudible
Sound Pressure Level, L pAm (Bystander Position)	53 dB	36 dB	Inaudible
Sound Pressure Level, L pAm (Operator Position)	59 dB	41 dB	Inaudible

[1] Print speed is 32 ppm.

Environmental specifications

Operating Temperature	50 to 91 degrees Fahrenheit (10 to 32.5 degrees Celsius)
Relative Humidity	20 to 80%

Warranty information

One-year on-site limited warranty.

Safety certifications

Safety	IEC 950:1991+A1+A2+A3+A4 / EN 60950:1992+A1+A2+A3+A4 IEC 825-1:1993 / EN 60825-1:1994 Class 1 (Laser/LED)
EMC	CISPR 22:1993 / EN 55022:1994 Class B [1] CISPR 22:1993 / EN 55022:1994 Class A [3] EN 50081-1:1992 EN 50082-1:1992 IEC 801-2:1991 / prEN 55024-2:1992 - 3 kV CD, 8 kV AD IEC 801-3:1984 / prEN 55024-3:1991 - 3 V/m IEC 801-4:1988 / prEN 55024-4:1992 - 1.0 kV Power Lines, 0.5 kV Signal Lines

FCC Title 47 CFR, Part 15 Class B [2] / ICES-002, Issue 2

AS / NZS 3548:1995

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC, and carries the CE-marking accordingly.

[1] The product was tested in a typical configuration with Hewlett-Packard Personal Computer Systems.

[2] This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

[3] The product includes Local Area Network (LAN) options. When the Interface Cable is attached to either of the IEEE 802.3 connectors, the printer meets the requirements of EN 55022 Class A.