HP Color LaserJet Enterprise MFP 5800dn Printer

Powerfully compact. Extraordinarily efficient.

Transform your workflows with advanced capabilities in a compact footprint. From print speeds to color panels [10], get flexible configurations to meet your needs today and tomorrow. All while protecting your business against evolving cyber threats.

This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: Learn more at: http://www.hp.com/learn/ds

More than a printer, in a compact footprint

- Experience fast scanning speeds and ultimate productivity with up to 100 ipm[1] duplex scan technology.
- Fast print speeds of up to 45 PPM [2] to help you get everything done faster.
- Easily enable workflows with a consistent user experience and intuitive, tablet-like icons on the 8-inch color touchscreen display.
- Maximize your productivity and increase print performance with HP's powerful tri-core processor for copying, scanning, and printing.

Customizable and scalable solutions [8]

- Get the functionality you need with unprecedented, flexible configurations built to order. Optimize your device to meet your business needs and your budget.
- Select the document feeding solution that works best for your team.
- Choose built-in storage options including HDD and SSD drives to handle data and documents stored on the device.

Fast and seamless digitization

- Customize your print experience with cloud-connected HP Workpath apps. Access personalized content and integrate paper and digital workflows.[4]
- Give your team the tools to succeed with the HP Open Extensibility Platform containing hundreds of HP and third-party solutions, and card reader support.
- Make color management simple with HP Custom Color Manager. Match color output of any document-device combination by simply pulling color profiles from the cloud. Get high-quality color profiles without the hassle of expensive color matching systems .[9]

Always on guard with HP Wolf Security

- With HP Sure Start always working behind the scenes, the operating code (BIOS) is automatically checked during start-up and repairs itself if compromised.
- HP Connection Inspector examines network connections. The printer's outgoing network connections are inspected to stop suspicious requests and thwart malware so you can stay connected and in the clear.
- Memory Shield™ and expanded run-time intrusion detection protects memory and other applications. Common Criteria certified [6] to continually monitor memory activity, detect and stop zero-day attacks in real time [known/unknown] and self-heal.
- Minimize exposure with whitelisting checks, firmware that is automatically checked during start-up to determine if it's authentic code – digitally signed by HP.

Technical specifications

Functions	Print, copy, scan, fax (optional)
First page out[6,7,5]	**First page out Letter:** As fast as 6.7 sec Black; As fast as 7.4 sec Color; **First page out A4:** As fast as 7.2 sec Black; As fast as 7.9 sec Color; **Letter:** Up to 45 ppm Black; Up to 45 ppm Color; **A4:** Up to 43 ppm Black; Up to 43 ppm Color; **Print speed (Landscape, A5):** Up to 69 ppm Black; Up to 69 ppm Color
Print resolution	**Black (best):** Up to 1,200 x 1,200 dpi; ; **Black (normal):** Up to 600 x 600 dpi; ; **Black (fine lines):** Up to 1200 x 1200 dpi; ; **Color (best):** Up to 1200 x 1200 dpi; ; **Color (normal):** Up to 600 x 600 dpi; ; **Color (fine lines):** Up to 1200 x 1200 dpi
Print technology	Laser; **Optical:** HP ImageREt 3600, Enhanced (600x600 dpi), Fine Lines (1200x1200 dpi), Quickview (300x300 dpi)
Print cartridges number	4 (1 each black, cyan, magenta, yellow)
Standard print languages	XPS, HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7)
Printer smart software features	Apple AirPrint™, Mopria-certified, Open Extensibility Platform, FutureSmart Firmware, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, Hardware Integration Pocket, Intuitive 8 in (20.3 cm) touchscreen control panel, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, print preview

Scan

Color scanning	Yes
Scan speed[10]	Up to 50 ppm/100 ipm (b&w), up to 50 ppm/100 ipm (color) **2-sided:** Up to 100 ipm (b&w), up to 100 ipm (color)
Scan type / Technology[10]	Flatbed ; ADF / Contact Image Sensor (CIS)
Scan resolution	**Hardware:** Up to 600 x 600 dpi; **Optical:** Up to 600 dpi
Scan file format	PDF; Hi-Compression PDF; PDFA; JPEG; TIFF; MTIFF; XPS
Scan input modes	Front panel applications: Copy; Fax; Scan to Email; Scan to Network Folder; Scan to USB; Scan to Job Storage; Open Extensibility Platform (OXP); HP Workpath Applications
Scan Size	**ADF:** 8.5 x 34.0 in Maximum; 2.7 x 5 in Minimum; **Flatbed:** 8.5 x 14 in
Scanner advanced features	Optimize text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect color; Edge Erase; Job notification; Blank page suppression; HP Quick Sets
Duplex ADF scanning	Yes
ADF capacity	Standard, 100 sheets
Twain version	Version 2.4
Bit depth / Grayscale levels	24-bit/256
Digital sending standard features	Scan to Email; scan to network folder; scan to USB drive; scan to SharePoint; scan to FTP; scan to sFTP; scan to LAN fax; scan to Internet Fax; local address book; SMTP over SSL; automatically detect color/monochrome; high compression PDF; image adjustments (darkness, contrast, background cleanup, sharpness); optimize text/picture (text, mixed, printed picture, photograph); content orientation; scan mode (book, 2-sided ID); erase edges; auto page crop; job build; image preview; blank page suppression; automatically straighten

Copy

Copy resolution	**Black (text and graphics):** Up to 600 x 600 dpi; ; **Color (text and graphics):** Up to 600 x 600 dpi
Maximum number of copies	Up to 9999 copies
Copier resize	25 to 400%
Copier settings	Book Copy; Booklet; Build Job; Collation; Color; Content orientation; Copy preview; Darkness control; Default Original Size; Edge Erase; Edge-to-Edge; ID Copy; Image adjustment; Job build; N or Z-ordering; Number of Copies; N-up; Original Size; Original Type; Paper Size; Paper Source; Paper type; Photo; Save Current Settings; Text; Text/Photo; Tray Selection; Two-sided copy; Watermark; reduce/enlarge; Scan mode (book, 2-sided ID); Stamps; Image overlay; Image shift; Image preview; Paper selection; Scan to job storage; Automatically straighten; Automatically detect color/monochrome

Fax

Fax speed[4]	**Up to:** Up to 33.6 kbps (with optional analog fax accessory) / **Letter:** 3 sec per page
Fax resolution	**Black (best):** Up to 300 x 300 dpi; **Black (standard):** 200 x 100 dpi
Fax Features	**Fax memory:** Up to 1000 pages; **Auto fax reduction supported:** Yes; **Auto-redialing:** Yes; **Fax delayed sending:** No; **Distinctive ring detection supported:** No; **Fax forwarding supported:** Yes (with optional analog fax accessory); **Fax phone TAM interface supported:** No; **Fax polling supported:** Yes (poll to receive only); **Fax telephone mode supported:** No; **Junk barrier supported:** Yes, up to 30 numbers may be blocked; **Maximum speed dialing numbers:** Up to 1000 numbers; **PC interface supported:** Yes; **Remote retrieval capability supported:** No; **Telephone handset supported:** No

Connectivity

Standard connectivity	1 SuperSpeed USB 3.0 (device); 1 SuperSpeed USB 3.0 (host); 1 Hi-Speed USB 2.0 (host); 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket 2nd generation (HIP2)
Network capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec (standard); 802.11a/b/g/n wireless networking (optional)
Mobile printing capability	Apple AirPrint™; Mopria™ Certified; NFC Touch-to-print (optional)
Memory	**Standard:** 6 GB; **Maximum:** 6 GB
Processor speed	1.2 GHz / **Storage:** 16 GB encrypted eMMC (located on formatter board for stored jobs and solutions); 16 GB eMMC (located on engine main board for copy/scan functions) / **Hard disk:** Standard, 32 GB eMMC; Optional, minimum 500 GB HDD; Optional, 256 GB SSD (via CTO)
Duty cycle (monthly)	Letter: Up to 80,000 pages; A4: Up to 80,000 pages; Recommended monthly page volume: 2000 to 10000
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Paper handling	**Input Capacities:** Up to 650 sheets Standard;; Up to 10 envelopes; ; **Output Capacities:** Up to 250 sheets Standard; ; ; **Duplex Options:** Automatic; **Envelope feeder:** No; **Standard paper trays:** 2

Media types supported	Paper (plain, light, intermediate, light bond, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), color transparency, labels, letterhead, envelope, preprinted, prepunched, colored, rough, opaque film, user-defined
Media weight supported	Tray 1: 16 to 58 lb (plain), 32 to 58 lb (glossy); Tray 2: 16 to 58 lb (plain), 32 to 58 lb (glossy); optional 550-sheet input trays: 16 to 58 lb (plain), 32 to 58 lb (glossy)
Media sizes supported	Tray 1: letter, legal, executive, statement, Oficio, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, envelopes (No. 9, No. 10, Monarch); Tray 2, optional 1x550-sheet feeders: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in
Media Sizes Custom	Tray 1: 2.52 x 5 to 8.5 x 47.24 in; Tray 2, optional 1x550-sheet feeders: 4 x 5.83 to 8.5 x 14 in
What's in the box	6QN29AR HP Color LaserJet Multifunction Printer; HP Black Original LaserJet Toner Cartridge (~7,000 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~3,000 yield each) (toner cartridges installed); Documentation (Hardware Install Guide); Power cord
Replacement cartridges[2]	W2130A HP 213A Black Original LaserJet Toner Cartridge (~3,500 pages); W2131A HP 213A CyanOriginal LaserJet Toner Cartridge (~3,000 pages); W2132A HP 213A Yellow Original LaserJet Toner Cartridge (~3,000 pages); W2133A HP 213A Magenta Original LaserJet Toner Cartridge (~3,000 pages); W2130X HP 213X High Yield Black Original LaserJet Toner Cartridge (~9,000 pages); W2131X HP 213X High Yield Cyan Original LaserJet Toner Cartridge (~6,000 pages); W2132X HP 213X High Yield Yellow Original LaserJet Toner Cartridge (~6,000 pages); W2133X HP 213X High Yield Magenta Original LaserJet Toner Cartridge (~6,000 pages); W2130Y HP 213Y Extra High Yield Black Original LaserJet Toner Cartridge, (~18,000 pages); W2131Y HP 213Y Extra High Yield Cyan Original LaserJet Toner Cartridge (~12,000 pages); W2132Y HP 213Y Extra High Yield Yellow Original LaserJet Toner Cartridge (~12,000 pages); W2133Y HP 213Y Extra High Yield Magenta Original LaserJet Toner Cartridge (~12,000 pages)
Product dimensions	**W x d x h:** 19.7 x 18.1 x 23.0 in ; **Maximum:** 34.8 x 31.9 x 32.6 in
Product weight	~83.6 lb
Warranty features	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://www.hp.com/support to learn about HP award winning service and support options in your region.
Energy star certified	Yes
Control panel	8.0 in (20.3 cm) touchscreen with color graphics
Display description	8.0 in (20.3 cm) Color Graphic Display (CGD) with touchscreen; rotating (adjustable angle)
Software included	No software solutions are included in the Box only on http://hp.com http://123.hp.com;
Compatible operating systems	Windows 11; Windows 10; Windows Client OS; Android; iOS; Mobile OS; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey; Linux; Citrix; Chrome OS
Compatible network operating systems	Windows Server; SAP; Novell; UNIX; Citrix; Linux
Minimum system requirements	**PC:** 2 GB available hard disk space; Internet connection; or USB port; Internet browser. For additional OS hardware requirements see microsoft.com;; **Mac:** 2 GB available hard drive space; Internet connection; or USB port; Internet browser. For additional OS hardware requirements see apple.com;
Power	**Power supply type:** Built in 110V or 220 V Power Supply (not dual voltage, power supply varies by part number with option code identifier); **Power requirements:** Input voltage: 100 to 127 VAC, 60 Hz, Input voltage: 200 to 240 VAC, 50 Hz (Not dual voltage, product varies by part number with # Option code identifier); **Power consumption:** 655 watts (Printing/Copying), 50.1 watts (Ready), 0.9 watts (Sleep), 0.09 watts (Manual Off)
Acoustics	**Acoustic power emissions:** 6.3 B(A) ; **Acoustic Pressure Emissions (active, printing):** 50 dB(A) ; **Acoustic Pressure Emissions (active scan):** 55 dB(A)
Operating environment	**Operating temperature range:** 10 to 32.5°C; **Recommended operating temperature:** 15 to 27°C; **Storage temperature range:** -20 to 40°C; **Non-operating humidity range:** ; **Operating humidity range:** 10 to 80% RH; **Recommended humidity operating range:** 30 to 70% RH
HP Service and Support options	U45Q5E HP 3 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP 580x; U45Q6E HP 4 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP 580x; U45Q7E HP 5 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP 580x; U45Q8E HP 3 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP 580x; U45Q9E HP 4 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP 580x; U45QBE HP 5 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP 580x; U45QGE HP 3 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP 580x; U45QHE HP 4 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP 580x; U45QJE HP 5 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP 580x; U45QKPE HP 1 year Post Warranty Next Business Day with DMR Service for Color LaserJet Enterprise MFP 580x; U45QMPE HP 1 year Post Warranty 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP 580x; U45QSPE HP 1 year PW Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP 580x; U9JT2E HP Installation Service with network configuration for Workgroup Printer

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