HP Color LaserJet Enterprise MFP M681 series

This HP Color LaserJet MFP merges performance, energy efficiency, and the deepest security.[1]

This HP Color LaserJet MFP with JetIntelligence combines exceptional performance and energy efficiency with professional-quality documents right when you need them—all while protecting your network with the industry's deepest security.[1]

HP Color LaserJet Enterprise MFP M681dh

HP Color LaserJet Enterprise MFP M681f

HP Color LaserJet Enterprise Flow MFP M681f

HP Color LaserJet Enterprise Flow MFP M681z

The world's most secure printing[1]

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Run-time intrusion detection continually monitors to detect and stop attacks, then automatically reboots.
- Centralize control of your printing environment with HP Web Jetadmin—and help build business efficiency.[8]
- Give workgroups what they need to succeed. Easily choose and deploy over 180 HP and third-party solutions.

High speed performance meets energy efficiency

- Scanning is now faster than ever; scan to SharePoint and more.
- This MFP wakes up fast and prints your first page faster—in as quickly as ___ seconds.[7]
- This MFP uses exceptionally low amounts of energy thanks to its innovative design and toner technology.[9]
- Paper handling options include a wheeled stand and 550-sheet input feeder for paper sizes 4 x 6" to legal.

More Pages, Performance, and Protection[4]

- ColorSphere3 toner formulation, combined with an automatic media sensor, help provide leading print quality.
- Original HP Toner cartridges with JetIntelligence supply 39% more pages per color cartridge vs predecessor.[4]
- Help retain the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
- Spend less time replacing toner, and more on business. Choose high-yield toner cartridges.[5]

Give workgroups the speed they need

- Help workgroups capture every page easily and detect potential errors or missed pages—every time.
- Enter data more quickly and accurately using the pull-out keyboard.
- Help ensure every scanned document is properly oriented, cropped to size, and grayscale-optimized.
- Load up to 150 pages into the automatic document feeder for fast, unattended scanning.

Data sheet | HP Color LaserJet Enterprise MFP M681 series

Product walkaround

1. Hardware Integration Pocket[1]
2. Easy-access USB port[2]
3. 1,000-sheet 3-bin stapler/stacker with offset job printing (Flow z models only)
4. Built-in automatic two-sided printing
5. HP High-Performance Secure Hard Disk
6. 550-sheet tray 2
7. 3x550-sheet paper feeder and stand[3]
8. 150-sheet ADF with single-pass, two-sided scanning and HP EveryPage[4]
9. 8.0-inch (20.3 cm) icon-based color touchscreen
10. Pull-out keyboard[4]
11. 100-sheet multipurpose tray 1
12. Lower-right door (access to print path)
13. Front door access to toner cartridges
14. Fax port[5]
15. Slot for cable-type security lock
16. Built-in Gigabit Ethernet
17. Hi-Speed USB 2.0 printing port
18. USB port for connecting external USB devices

Series at a glance

Model	HP Color LaserJet Enterprise MFP M681dh	HP Color LaserJet Enterprise MFP M681f	HP Color LaserJet Enterprise Flow MFP M681f	HP Color LaserJet Enterprise Flow MFP M681z
Product number	J8A10A	J8A11A	J8A12A	J8A13A
Print speeds (letter/A4)[6]	Up to 50/47 pages per minute (ppm)	Up to 50/47 ppm		
Fax capabilities	Optional	√		
100-sheet tray 1, 550-sheet tray 2	√			
550-sheet paper feeder	Optional (up to two)[7]	Not available	Optional (up to two)	Not available
550-sheet paper feeder with stand and cabinet	Optional[7]	√	Optional	Not available
3x550-sheet paper feeder and stand	Optional[7]	Not available	Optional	√
1x550-sheet/2,000-sheet HCI feeder and stand	Optional[7]	Not available	Optional	Not available
3-bin stapler/stacker with offset job printing	Not available			√
Advanced workflow features including pull-out keyboard	Not available		√	
Direct mobile printing	Optional wireless direct[8]/NFC[9]	Optional wireless direct[7]/NFC[8]		
Wireless networking	Optional[11]	Optional[10]		

HP Services

Downtime can have serious consequences, so HP provides support beyond the standard warranty. You benefit from reduced risk, maximized uptime, predictable service delivery and no unbudgeted repair costs. HP Care Pack Services provide a comprehensive suite of protection services designed to keep HP hardware and software up and running so employees can stay productive.

For carepack availability visit: hp.com/go/cpc

Same Day Onsite – 4 hour 9x5:: Sends an HP technician to customers' site the same business day for repair, within 4 hours, if the issue cannot be resolved through remote support. Various support window times are available, for different requirements.
Next Business Day Onsite with Defective Media Retention:: Customers can retain their hard disk drive and keep control of sensitive data.

Top features

Only HP enterprise printers repair themselves from attacks in real time while offering outstanding manageability. Automatically monitor threats, detect intrusions, and validate operating software while centrally managing your fleet with ease.[1]

With speeds up to 50 pages per minute[3], fast first page out and a variety of paper-handling options, you get confidence that your employees can speed through their tasks without interruption.

Get more pages and help protect your MFP using Original HP Toner cartridges with JetIntelligence.[4]

Accelerate workflow, improve accuracy, and easily connect people throughout your organization. Complete high-volume scan jobs fast—up to 180 ipm[6]—and avoid extra steps with a Flow MFP designed for maximum productivity.

Accessories

2MU47A	HP Accessibility Assistant
2TD64A	HP Accessibility Kit
A7W13A	HP LaserJet Keyboard Overlay Kit-Danish/French-Switzerland/German-Switzerland
B5L28A	HP Internal USB Ports
B5L29A	HP High-Performance Secure Hard Disk
B5L31A	HP Foreign Interface Harness
E5K48A	HP 1 GB x32 144-pin (800 MHz)DDR3 SODIMM
F5S62A	HP Trusted Platform Module Accessory
J8030A	HP Jetdirect 3000w NFC/Wireless Accessory
J8031A	HP Jetdirect 2900nw Print Server

Supplies

CF450A	HP 655A Black Original LaserJet Toner Cartridge (12,500 pages)
CF451A	HP 655A Cyan Original LaserJet Toner Cartridge (10,500 pages)
CF452A	HP 655A Yellow Original LaserJet Toner Cartridge (10,500 pages)
CF453A	HP 655A Magenta Original LaserJet Toner Cartridge (10,500 pages)
CF470X	HP 657X High Yield Black Original LaserJet Toner Cartridge (28,000 pages)
CF471X	HP 657X High Yield Cyan Original LaserJet Toner Cartridge (23,000 pages)
CF472X	HP 657X High Yield Yellow Original LaserJet Toner Cartridge (23,000 pages)
CF473X	HP 657X High Yield Magenta Original LaserJet Toner Cartridge (23,000 pages)
P1B94A	HP LaserJet Toner Collection Unit (Up to 100,000 pages)

Services

U9NP3E – HP 3y Nbd+DMR CLJ Ent MFP M68x HW Supp

U9NP4E – HP 4y Nbd+DMR CLJ Ent MFP M68x HW Supp

U9NP5E – HP 5y Nbd+DMR CLJ Ent MFP M68x HW Supp

U9NP6E – HP 3y 4h 9x5+DMR CLJ Ent MFP M68x HWSupp

U9NP7E – HP 4y 4h 9x5+DMR CLJ Ent MFP M68x HWSupp

U9NP8E – HP 5y 4h 9x5+DMR CLJ Ent MFP M68x HWSupp

U9NP9E – HP 3y 4h13x5+DMR CLJ Ent MFP M68x HWSupp

U9NQ0E – HP 4y 4h13x5+DMR CLJ Ent MFP M68x HWSupp

U9NQ1E – HP 5y 4h13x5+DMR CLJ Ent MFP M68x HWSupp

U9NQ2E – HP 3y NBD CTR+DMR CLJ EntMFP M68x HWSupp

U9NQ3E – HP 4y NBD CTR+DMR CLJ EntMFP M68x HWSupp

U9NQ4E – HP 5y NBD CTR+DMR CLJ EntMFP M68x HWSupp

U9NQ5E – HP 3yNbd ChnlParts CLJ EntMFP M68x SVC

U9NQ6E – HP 4yNbd ChnlParts CLJ EntMFP M68x SVC

U9NQ7E – HP 5yNbd ChnlParts CLJ EntMFP M68x SVC

U9NW8E – HP3yNbd+max3MaintKit CLJEntMFPM68xHWSupp

U9NW9E – HP4yNbd+max4MaintKit CLJEntMFPM68xHWSupp

U9NX0E – HP5yNbd+max5MaintKit CLJEntMFPM68xHWSupp

U9NX1PE – HP 1y PW Nbd+DMR CLJ Ent MFP M68x HWSupp

U9NX2PE – HP1yPW ChnlParts CLJ Ent MFP M68x SVC

U9NY0PE – HP2yPW ChnlParts CLJ Ent MFP M68x SVC

HP Color LaserJet Enterprise MFP M681 series

Model	HP Color LaserJet Enterprise MFP M681dh	HP Color LaserJet Enterprise MFP M681f	HP Color LaserJet Enterprise Flow MFP M681f	HP Color LaserJet Enterprise Flow MFP M681z
Product number	J8A10A	J8A11A	J8A12A	J8A13A
AIO functions	Print, copy, scan; **AIO multitasking supported:** Yes	Print, copy, scan, fax; **AIO multitasking supported:** Yes		

Print

Print speed[11],[13;14],[12]	**First page out Letter:** As fast as 6.4 sec Black; As fast as 6.4 sec Color; **First page out A4:** As fast as 6.5 sec Black; As fast as 6.5 sec Color; **Letter:** Up to 50 ppm Black; Up to 50 ppm Color; **A4:** Up to 47 ppm Black; Up to 47 ppm Color; **Print speed (Landscape, A5):** Up to 74 ppm Black; Up to 74 ppm Color
Print resolution	**Black (best)** Up to 1200 x 1200 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; **Print resolution technology:** HP ImageRet 3600; 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); Pantone© Calibrated
Print cartridges number	4 (1 each black, cyan, magenta, yellow)
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7), URF (AirPrint)
Printer smart software features	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB
Printer management / HP SureSupply	HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP Web JetAdmin Software; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver/ Yes

Scan

Scan type / Technology	**Type:** Flatbed, ADF; **Technology:** Charge Coupled Device (CCD); **Twain version:** Version 2.1			
Scan resolution	**Hardware:** Up to 600 x 600 dpi; **Optical:** Up to 600 dpi			
Scan file format	Digital Send: PDF, Hi-Compression PDF, JPEG, TIFF, MTIFF, XPS, PDF/A; Scan to easy access USB: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A; Print from easy access USB: PDF, PS, Print Ready files (.prn, .pcl, .cht)		Digital Send: PDF, Hi-Compression PDF, JPEG, TIFF, MTIFF, XPS, PDF/A, TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Scan to easy access USB: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A, TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Print from easy access USB: PDF, PS, Print Ready files (.prn, .pcl, .cht)	
Scan input modes	Front panel applications: Copy; E-mail; Save to Network Folder; Save to USB; Save to Device Memory; Save to SharePoint; Open Extensibility Platform (OXP) applications; HP Scan or user application via TWAIN	Front panel applications: Copy; E-mail; Fax; Save to Network Folder; Save to USB; Save to Device Memory; Save to SharePoint; Open Extensibility Platform (OXP) applications; HP Scan or user application via TWAIN		
Scan Size	**ADF:** 8.5 x 34.0 in Maximum; 2.7 x 5.8 in Minimum; **Flatbed:** 8.5 x 14 in			
Scan speed[18]	Up to 75 ppm (b&w), up to 75 ppm (color) Letter; Up to 69 ppm (b&w), up to 69 ppm (color) A4; **Duplex:** Up to 120 ipm (b&w), up to 120 ipm (color) Letter; Up to 111 ipm (b&w), up to 111 ipm (color) A4		Up to 90 ppm (b&w), up to 90 ppm (color) Letter; Up to 83 ppm (b&w), up to 83 ppm (color) A4; **Duplex:** Up to 180 ipm (b&w), up to 180 ipm (color) Letter; Up to 167 ipm (b&w), up to 167 ipm (color) A4	
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; PDF, JPG, TIF, MTIF		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; HP EveryPage; Auto orientation; Embedded Optical Character Recognition (OCR), Auto crop to page; Auto-tone; PDF, JPG, TIF, MTIF	
Bit depth / Grayscale levels	24-bit / 256			
Digital sending standard features	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to SharePoint; Send to FTP; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Color Sense; Auto Crop To Content; Compact PDF	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to SharePoint; Send to FTP; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Color Sense; Auto Crop To Content; Compact PDF	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to Sharepoint; Send to FTP; Send to LAN Fax; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Color Sense; Auto Crop To Content; Compact PDF; Auto Tonescale; Auto Orientation; Multi-Pick Detect; Auto Straighten; Auto Crop To Page; OCR	

Copy

Copy speed[15]	**Letter:** Up to 50 cpm Black; Up to 50 cpm Color; **A4:** Up to 47 cpm Black; Up to 47 cpm Color; **First copy out Letter:** As fast as 6.6 sec Black; As fast 7.1 sec Color; **First copy out A4:** As fast as 6.7 sec Black; As fast as 7.2 sec Color; **2-sided Letter:** Up to 50 cpm Black; Up to 50 cpm Color; **2-sided A4:** Up to 47 cpm Black; Up to 47 cpm Color
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
Copier settings	Two-sided copying, scalability, image adjustments (darkness, contrast, background cleanup, sharpness), N-up, N or Z-ordering, content orientation, collation, booklet, job build, edge-to-edge, job storage, ID Copy, Book Copy, A-to-B Copy (different media sizes)

Fax

Fax speed		**Up to:** 33.6 kbps / **Letter:** 3 sec per page
Fax resolution		**Black (best):** Up to 300 x 300 dpi (400 x 400 dpi for received faxes only); **Black (standard):** 203 x 98 dpi
Fax smart software features		Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule
Fax Features		**Fax memory:** Up to 500 pages; **Auto fax reduction supported:** Yes; **Auto-redialing:** Yes; **Fax delayed sending:** No; **Distinctive ring detection supported:** No; **Fax forwarding supported:** Yes; **Fax phone TAM interface supported:** No; **Fax polling supported:** Yes (poll to receive only); **Fax telephone mode supported:** No; **Junk barrier supported:** Yes; **Maximum speed dialing numbers:** Up to 1000 numbers (each with 210 destinations); **PC interface supported:** Yes; **Remote retrieval capability supported:** No; **Telephone handset supported:** No

Connectivity

Standard connectivity	1 Hi-Speed Device USB 2.0; 2 Host USB (1 walk-up and 1 external accessible); 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket	1 Hi-Speed Device USB 2.0; 2 Host USB (1 walk-up and 1 external accessible); 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket; 1 Fax
Network capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-T, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (optional).	
Wireless capability	Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A or HP Jetdirect 3000w NFC/Wireless Accessory J8030A	
Mobile printing capability	HP ePrint; Apple AirPrint™; Mopria™-certified; Google Cloud Print 2.0	
Memory	**Standard:** 1.5 GB (printer); 512 MB (scanner); **Maximum:** 4 GB	**Standard:** 1.5 GB (printer); 1 GB (scanner); **Maximum:** 4.5 GB
Processor speed	1.2 GHz / **Storage**[10]: 500 GB hard disk drive / **Hard disk:** Standard, minimum 500 GB HP High-Performance Secure Hard Disk (AES 256 hardware encryption or greater)	
Duty cycle (monthly)	**Letter:** Up to 100,000 pages; **A4:** Up to 100,000 pages; **Recommended monthly page volume:** 2000 to 14,000	

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HP Color LaserJet Enterprise MFP M681 series

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Product number	J8A10A	J8A11A	J8A12A	J8A13A
Paper handling				
Input	100-sheet multi-purpose tray, 550-sheet input tray 2, 150-sheet automatic document feeder; Up to 650 sheets Standard; MP Tray: Up to 10 envelopes (or 10mm stack height)	100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 150-sheet automatic document feeder; Up to 1200 sheets Standard; MP Tray: Up to 10 envelopes (or 10mm stack height)	100-sheet multi-purpose tray, 550-sheet input tray 2, 150-sheet automatic document feeder; Up to 650 sheets Standard; MP Tray: Up to 10 envelopes (or 10mm stack height)	100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 4, 5, 150-sheet automatic document feeder; Up to 2300 sheets Standard; MP Tray: Up to 10 envelopes (or 10mm stack height)
Output	Standard: 500-sheet output tray, two-sided printing; Up to 500 sheets Standard; Transparencies: Up to 200 sheets		Standard: 500-sheet output tray, two-sided printing; Up to 500 Sheets Standard; Transparencies: Up to 200 sheets	Standard: 500-sheet output stapler stacker, two-sided printing; Up to 1,000 sheets Standard; Transparencies: Up to 200 sheets
Duplex Options	Automatic (standard)			
Auto document feeder capacity	Standard, 150 sheets			
Envelope feeder	No			
Standard paper trays	2	3	2	5
Media types	Paper (plain, light, 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	Tray 1: 16 to 58 lb (plain) 32 to 58 lb (glossy); Tray 2: 16 to 90 lb (plain) 32 to 58 lb (glossy)	Tray 1: 16 to 58 lb (plain) 32 to 58 lb (glossy); Trays 2, 3: 16 to 90 lb (plain) 32 to 58 lb (glossy)	Tray 1: 16 to 58 lb (plain) 32 to 58 lb (glossy); Tray 2: 16 to 90 lb (plain) 32 to 58 lb (glossy)	Tray 1: 16 to 58 lb (plain) 32 to 58 lb (glossy); Trays 2, 3, 4, 5: 16 to 90 lb (plain) 32 to 58 lb (glossy);
Media sizes	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: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional 550-sheet trays: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional 2,000-sheet high-capacity tray: letter, legal	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); Trays 2, 3: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in	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: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional 550-sheet trays: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional 2,000-sheet high-capacity tray: letter, legal	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); Trays 2, 3, 4, 5: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in
Media Sizes Custom	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2: 4 x 5.83 to 8.5 x 14 in; Optional 550-sheet trays: 4 x 5.83 to 8.5 x 14 in; Optional 2000-sheet high-capacity tray: custom sizes not supported in this tray	Tray 1: 3 x 5 to 8.5 x 14 in; Trays 2, 3: 4 x 5.83 to 8.5 x 14 in	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2: 4 x 5.83 to 8.5 x 14 in; Optional 550-sheet trays: 4 x 5.83 to 8.5 x 14 in; Optional 2000-sheet high-capacity tray: custom sizes not supported in this tray	Tray 1: 3 x 5 to 8.5 x 14 in; Trays 2, 3, 4, 5: 4 x 5.83 to 8.5 x 14 in
Dimensions (w x d x h)	20.08 x 21.85 x 25.91 in; 510 x 555 x 658 mm; Maximum: 37.91 x 30.31 x 35.83 in; 963 x 770 x 910 mm	25.87 x 25.87 x 43.62 in; 657 x 657 x 1108 mm; Maximum: 39.06 x 37.32 x 53.54 in; 992 x 948 x 1360 mm	20.08 x 21.85 x 25.91 in; 510 x 555 x 658 mm; Maximum: 37.91 x 30.31 x 35.83 in; 963 x 770 x 910 mm	25.87 x 25.87 x 50.00 in; 657 x 657 x 1270 mm; Maximum: 39.06 x 38.07 x 60.20 in; 992 x 967 x 1529 mm
Weight[4]	93.2 lb; 42.3 kg	135.4 lb; 61.5 kg	94.4 lb; 42.8 kg	168.1 lb; 76.3 kg
What's in the box[2]	HP Color LaserJet Multifunction Printer; HP Black Original LaserJet Toner Cartridge (~12,500 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~10,500 yield each) (toner cartridges installed); CD with software drivers and documentation; Documentation (Hardware Install Guide); Power cord			
Replacement cartridges[8]	HP 655A Black Original LaserJet Toner Cartridge (~12,500 yield) CF450A; HP 657X High Yield Black Original LaserJet Toner Cartridge (~28,000 yield) CF470X; HP 655A Cyan Original LaserJet Toner Cartridge (~10,500 yield) CF451A; HP 657X High Yield Cyan Original LaserJet Toner Cartridge (~23,000 yield) CF471X; HP 655A Yellow Original LaserJet Toner Cartridge (~10,500 yield) CF452A; HP 657X High Yield Yellow Original LaserJet Toner Cartridge (~23,000 yield) CF472X; HP 655A Magenta Original LaserJet Toner Cartridge (~10,500 yield) CF453A; HP 657X High Yield Magenta Original LaserJet Toner Cartridge (~23,000 yield) CF473X			
Warranty features	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://hp.com/support to learn about HP award winning service and support options in your region.			
Energy star certified	Yes			
Energy efficiency compliance[1]	ENERGY STAR® qualified; CECP; EPEAT Silver			ENERGY STAR® qualified; CECP; EPEAT® Silver; EPEAT® Gold (Options AAZ; 201)
Control panel	8.0-in (20.3 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; illuminated Home button (for quick return to the Home menu)		8.0-in (20.3 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; illuminated Home button (for quick return to the Home menu); Pull-out Keyboard	
Display	8.0-in (20.3 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; illuminated Home button (for quick return to the Home menu)			
Software included	HP Connected, HP Device Experience (DXP), HP PCL 6 (XPS) Printer Driver, HP Software Installer/Uninstaller, Mac OS Welcome Screen (Directs users to 123.HP.com or OS App Source for printer software), Online user manuals			
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at http://www.hp.com/go/laserjetfonts			
Compatible operating systems	Android, Linux Boss (5.0), Linux Debian (7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6), Linux Fedora (22, 23, 24), Linux Mint (17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2, 42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10), OS macOS 10.12 Sierra, OS X 10.10 Yosemite, OS X 10.11 El Capitan, UNIX, Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows Vista all 32bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)			
Compatible network operating systems	Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2, and 3), Citrix on Windows Server 2003/2003R2, Citrix on Windows Server 2008/2008R2/2008 SP1, Citrix on Windows Server 2012/2012R2, Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3) for Windows Server 2008 Terminal Services 32- and 64-bit, Citrix XenApp 6.0/6.5 [for Windows Server 2008 R2 Terminal Services, 32- and 64-bit], Citrix XenApp 6.0/6.5/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit], Citrix XenApp 7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit], Citrix XenDesktop 5.6 [for Windows Server 2008 R2 Terminal Services, 32- and 64-bit], Citrix XenDesktop 5.6/7.0/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit], Citrix XenDesktop 7.0/7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit], Novell NetWare 6.5/SP8 Novell Clients www.novell.com/iprint, Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, Novell Servers www.novell.com/iprint), Windows Server 2003/2003 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2), Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 32-/64-bit (SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services)			
Minimum system requirements	**PC:** 2 GB available hard disk space; OS hardware requirements see microsoft.com; **Mac:** 1.3 GB available hard drive space; Internet; OS hardware requirements see Apple.com for more info			
Power[6]	Power supply type: Built in 115V or 220 V Power Supply (not dual voltage, power supply varies by part number with option code identifier); Power supply required: Input voltage: 100V to 127V nominal (+/-10%), 50 - 60Hz nominal (+/- 3Hz), 12 A; Input voltage: 220 V to 240V nominal, (+/-10%) 50 - 60Hz nominal (+/- 3Hz), 6 A; Power consumption[5]: 900 watts (printing/copying), 47 watts (ready), 0.9 watts (sleep), 0.9 watts (Auto Off/Manual On), 0.1 (Manual Off); Typical electricity consumption (TEC) number: 2.68 kWh/Week (Blue Angel); 0.672 kWh/Week (Energy Star 3.0); Best technical electricity consumption (TEC): 2.24 kWh/Week			
Acoustics	Acoustic power emissions: 6.6 B(A)			
Operating environment	Operating temperature range: 59 to 86ºF ; Recommended operating temperature: 63.5 to 77ºF ; Storage temperature range: -4 to 104ºF ; Operating humidity range: 10 to 80% RH ; Recommended operating humidity range: 30 to 70% RH			
Security management	Identity management: Kerberos authentication; LDAP authentication; 1000 user PIN codes; optional HP and 3rd party advanced authentication solutions (e.g.; badge readers); Network: IPsec/firewall with Certificate; Pre-Shared Key; and Kerberos authentication; Supports WJA-10 IPsec configuration Plug-in; 802.1X authentication (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS; Certificates; Access Control List; Data: Storage Encryption; Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft); Secure Erase; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock slot; USB port disablement; hardware integration pocket for security solutions; Intrusion Detection with Red Balloon Security Technology - Constant in-device monitoring for attacks; SureStart Secure Boot - BIOS Integrity Checking with self-healing capability; Whitelisting - loads only known good code (DLLs, EXEs, ...); Security management: Compatible with HP JetAdvantage Security Manager, Device Security Syslog Messages processed and accessable in Arcsight and Splunk SIEMs			

[1] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.
[2] Cartridges included; yields 10,500 color (C/Y/M) and 12,500 black pages. Pages based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies. Pages may vary based on customer printing conditions and usage.
[3] With print cartridges
[4] With print cartridges
[5] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Power consumption values typicallty based on measurement of 115V device.
[6] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115V device.
[7] Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled.
[8] Average color composite (C/M/Y) and black declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies
[9] Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit http://www.hp.com/go/learnaboutsupplies
[10] High-Performance Secure Hard Disk (AES 256 hardware encryption or greater); Secure erase capabilities (Secure File Erase-Temporary Job Files, Secure Erase-Job Data, Secure ATA Erase-Disk)
[11] Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[12] Measured using ISO 24734 Feature Test, A5 Landscape Feed. Speed may vary based on content, PC, media orientation, and media type.
[13] Measured using ISO/IEC 17629. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[14] Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, and document complexity and time in sleep.
[15] First Copy Out from Ready and Simplex Copy Speed measured using ISO/IEC 29183, Duplex Copy Speed measured using ISO/IEC 24735, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application and document complexity.
[16] First Copy Out from Ready measured using ISO/IEC 29183, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[17] Measured after 15 min in sleep from Device Wake to Page In Bin. Exact speed varies depending on the system configuration, software application, document complexity and time in sleep.
[18] Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.
[19] Scan software not included in box. HP Scan and TWAIN driver available for download at http://hp.com/support

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