



# HP Color LaserJet Enterprise MFP M681dh

This HP Color LaserJet MFP merges performance, energy efficiency, and the deepest security.<sup>1</sup>

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.<sup>1</sup>



## The world's most secure printing<sup>1</sup>

- 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.<sup>8</sup>
- 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; duplex scan speeds up to 120 ipm. Scan to SharePoint and more.
- This MFP wakes up fast and prints your first page faster—in as quickly as 8.9 seconds.<sup>7</sup>
- This MFP uses exceptionally low amounts of energy thanks to its innovative design and toner technology.<sup>9</sup>
- 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<sup>4</sup>

- 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.<sup>4</sup>
- 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.<sup>5</sup>

## Technical specifications

Functions / Multitasking supported	Print, copy, scan / Yes
Print speed <sup>11, 13, 14, 12</sup>	<b>First page out A4:</b> As fast as 6.5 sec Black; As fast as 6.5 sec Color; <b>First page out Letter:</b> As fast as 6.4 sec Black; As fast as 6.4 sec Color; <b>A4:</b> Up to 47 ppm Black; Up to 47 ppm Color; <b>Letter:</b> Up to 50 ppm Black; Up to 50 ppm Color; <b>Print speed (Landscape, A5):</b> Up to 74 ppm Black; Up to 74 ppm Color
2-sided printing	<b>A4:</b> Up to 47 ppm Black; Up to 47 ppm Color; <b>Letter:</b> Up to 50 ppm Black; Up to 50 ppm Color
Print resolution	<b>Black (best):</b> Up to 1200 x 1200 dpi; <b>Black (normal):</b> Up to 600 x 600 dpi; <b>Black (fine lines):</b> Up to 1200 x 1200 dpi; <b>Color (best):</b> Up to 1200 x 1200 dpi; <b>Color (normal):</b> Up to 600 x 600 dpi; <b>Color (fine lines):</b> Up to 1200 x 1200 dpi
Print technology	Laser ; <b>Print resolution technology:</b> 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
<b>Scan</b>	
Scan speed <sup>18</sup>	Up to 69 ppm (b&w), up to 69 ppm (color); <b>2-sided:</b> Up to 111 ipm (b&w), up to 111 ipm (color)
Scan type / Technology <sup>18</sup>	Flatbed, ADF / Charge Coupled Device (CCD)
Scan resolution	<b>Hardware:</b> Up to 600 x 600 dpi; <b>Optical:</b> 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 (.lprn, .pcl, .chd)
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 TWIN
Scan Size	<b>ADF:</b> 215.9 x 863.6 mm Maximum; 68 x 147 mm Minimum; <b>Flatbed:</b> 216 x 356 mm
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
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
<b>Copy</b>	
Copy resolution	<b>Black (text and graphics):</b> Up to 600 x 600 dpi; Up to 600 x 600 dpi <b>Color (text and graphics):</b> 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)
<b>Connectivity</b>	
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
Network capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 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	<b>Standard:</b> 1.5 GB (printer); 512 MB (scanner); <b>Maximum:</b> 4 GB
Processor speed	1.2 GHz / <b>Storage<sup>19</sup>:</b> 500 GB hard disk drive / <b>Hard disk:</b> Standard, minimum 500 GB HP High-Performance Secure Hard Disk (AES 256 hardware encryption or greater)
Duty cycle (monthly)	A4: Up to 100,000 pages; Letter: Up to 100,000 pages; Recommended monthly page volume : 2000 to 14,000
Recommended monthly page volume	2000 to 14,000
Paper handling	<b>Input Capacities:</b> Up to 650 sheets Standard; MP Tray: Up to 10 envelopes (or 10mm stack height) <b>Output Capacities:</b> Up to 500 sheets Standard Up to 200 sheets <b>Duplex Options:</b> Automatic (standard) <b>Envelope Feeder:</b> No <b>Standard paper trays:</b> 2

Media types supported	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card gloss), color transparency, labels, letterhead, envelope, preprinted, punched, colored, rough, opaque film, user-defined
Media weight supported	42.3 kg; 93.2 lb
Media sizes supported	Tray 1: A4, A5, A6, RA4, B5, B6, 16k, 10 x 15 cm, Oficio, postcards (JIS single and double) envelopes (DL, C5, B5, C6); Tray 2: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard; Optional 550-sheet trays 3, 4, 5: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard; Optional 2,000-sheet High-capacity Tray 4: A4
Media Sizes Custom	Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 101.6 x 148 to 216 x 356 mm; Optional 550-sheet trays: 101.6 x 148 to 216 x 356 mm; Optional 2,000-sheet high-capacity tray: custom sizes not supported in this tray
What's in the box	<b>JBA10A</b> 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 <sup>9</sup>	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) CF472A; HP 655A Magenta Original LaserJet Toner Cartridge (~10,500 yield) CF453A; HP 657X High Yield Magenta Original LaserJet Toner Cartridge (~23,000 yield) CF473X
Product dimensions	<b>W x d x h:</b> 510 x 555 x 658 mm; <b>Maximum:</b> 963 x 770 x 910 mm
Product weight <sup>4</sup>	42.3 kg
Warranty features	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to <a href="http://hp.com/support">http://hp.com/support</a> to learn about HP award winning service and support options in your region.
Energy star certified	Yes
Energy efficiency compliance	ENERGY STAR® qualified; CECP; EPEAT® Silver
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)
Display description	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
Compatible operating systems	Go to <a href="http://hp.com/search">hp.com/search</a> for HP Color LaserJet Enterprise M681dh Multifunction Printer for all operating Systems
Compatible network operating systems	Go to <a href="http://hp.com/search">hp.com/search</a> for HP Color LaserJet Enterprise M681dh Multifunction Printer for all operating Systems
Minimum system requirements	<b>PC:</b> 2 GB available hard disk space; OS hardware requirements see <a href="http://microsoft.com">microsoft.com</a> ; <b>Mac:</b> 1.3 GB available hard drive space; Internet; OS hardware requirements see <a href="http://apple.com">apple.com</a> for more info
Power <sup>5</sup>	<b>Power supply type:</b> Built in 115V or 220 V Power Supply (not dual voltage, power supply varies by part number with option code identifier); <b>Power requirements:</b> 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; <b>Power consumption:</b> 900 watts (printing/copying), 47 watts (ready), 0.9 watts (sleep), 0.9 watts (Auto Off/Manual On), 0.1 (Manual Off)
Acoustics	<b>Acoustic power emissions:</b> 6.6 B(A)
Operating environment	<b>Operating temperature range:</b> 15 to 30°C; <b>Recommended operating temperature:</b> 17.5 to 25°C; <b>Storage temperature range:</b> -20 to 40°C; <b>Non-operating humidity range:</b> 10 to 90% RH; <b>Operating humidity range:</b> 10 to 80% RH; <b>Recommended humidity operating range:</b> 30 to 70% RH
Accessories	2NR12A HP Removable Hard Drive Enclosure; 2NR09A HP 2GB 144-Pin DDR3 TAA Version DIMM; ESK48A HP 1 GB x32 144-pin (800 MHz)DDR3 SODIMM; ESK49A HP 2 GB x32 144-pin (800 MHz) DDR3 SODIMM; 5EL03A HP TAA Version Secure Hard Disk Drive; BSL29A HP High-Performance Secure Hard Disk; 3JN69A HP Jetdirect 3100w BLE/NFC/Wireless Accessory; J8030A HP Jetdirect 3000w NFC/Wireless Accessory; J8031A HP Jetdirect 2900nw Print Server; ZEH31A HP MFP Analog Fax Accessory 700; J8J95A HP 300 ADF Roller Replacement Kit; P1B09A HP Color LaserJet 550-sheet Media Tray; P1B10A HP Color LaserJet 550-sheet Paper Tray with Stand; P1B11A HP Color LaserJet 3x550-sheet Feeder and Stand; P1B12A HP Color LaserJet 1x550/2000-sheet HCL Feeder and Stand; BSL28A HP Internal USB Ports; 2MU47A HP Accessibility Assistant; 2TD64A HP Accessibility Kit; BSL31A HP Foreign Interface Harness; F5S62A HP Trusted Platform Module Accessory; CC543B HP SmartCard NIPRNet Solution for US Government
HP Service and Support options	U9NP3E - HP 3 year NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x; U9NP6E - HP 3 year 4 hour 9x5 Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x; U9NX1PE - HP 1 year Post Wty NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x; U9NX3PD - HP 1 year Post Warranty 4 hour 9x5 Service w/DMR for Color LaserJet Enterprise MFP M68x

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