



# HP Color LaserJet Enterprise Flow MFP M681z (J8A13A)



## Overview

**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]

### **The world's most secure printing[1]**

With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.

### **High speed performance meets energy efficiency**

Scanning is now faster than ever; duplex scan speeds up to 180 ipm. Scan to SharePoint and more.

### **More Pages, Performance, and Protection[4]**

ColorSphere3 toner formulation, combined with an automatic media sensor, help provide leading print quality.

### **Give workgroups the speed they need**

Help workgroups capture every page easily and detect potential errors or missed pages—every time.

## Features



Simplify security<sup>[12]</sup>



Take the guesswork out of fleet management<sup>[13]</sup>

---

*[1] Based on HP review of 2016 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit [hp.com/go/PrintersThatProtect](http://hp.com/go/PrintersThatProtect). For more information: [hp.com/go/printersecurityclaims](http://hp.com/go/printersecurityclaims)*

*[4] More pages versus predecessor cartridges claim based on page-yield comparison of HP 653X High Yield Color Original LaserJet Toner Cartridges with HP 657X High Yield Color Original LaserJet Toner Cartridges. For more information, see [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies)*

## Specifications

<b>Print Resolution Technologies</b>	HP ImageRet 3600; 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); Pantone© Calibrated
<b>Print quality black (best)</b>	Up to 1200 x 1200 dpi
<b>Print quality color (best)</b>	Up to 1200 x 1200 dpi
<b>Print speed black (ISO, A4)</b>	Up to 47 ppm
<b>Print speed black (ISO, letter)</b>	Up to 50 ppm
<b>Print Speed Color (ISO)</b>	Up to 47 ppm
<b>Print speed color (ISO)</b>	Up to 50 ppm
<b>Functions</b>	Print, copy, scan, fax
<b>Duplex printing</b>	Automatic (standard)
<b>Duty cycle (monthly, A4)</b>	Up to 100,000 pages
<b>Duty cycle (monthly, letter)</b>	Up to 100,000 pages
<b>Printer smart software features</b>	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB
<b>Copier smart software features</b>	Auto scale; Reduce/enlarge from scanner glass (25 to 400 percent); Collate; Auto color detection; Two-sided copying; Image adjustments (darkness, background cleanup, sharpness); Job build
<b>Scanner advanced features</b>	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
<b>Fax smart software features</b>	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule
<b>Energy savings feature technology</b>	HP Auto-On/Auto-Off Technology; Instant-on Technology; Instant-on Copy
<b>Replacement cartridges</b>	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 <sup>[8]</sup>
<b>Connectivity, standard</b>	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
<b>Connectivity, optional</b>	HP Jetdirect 2900nw Print Server J8031A; HP Jetdirect 3000w NFC/Wireless Accessory J8030A
<b>Modem</b>	33.6 kbps

<b>Network capabilities</b>	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).
<b>Wireless capability</b>	Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A or HP Jetdirect 3000w NFC/Wireless Accessory J8030A
<b>Mobile printing capability</b>	HP ePrint; Apple AirPrint™; Mopria™-certified; Google Cloud Print 2.0
<b>Network protocols, supported</b>	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, Apple AirPrint™, HP ePrint, FTP Print, Google Cloud Print; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPS, Telnet, TFTP Config, FTP FW Download, Syslog; Security: SNMPv3, SSL Cert Management, Firewall, ACL, 802.1x
<b>Software included</b>	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
<b>Compatible Operating Systems</b>	Windows 11; Windows 10; Windows 8; Windows 8.1; Windows 7; Windows Vista; Android; macOS X 10.10 Yosemite; macOS 10.11 El Capitan; macOS 10.12 Sierra; Linux; UNIX  <i>(Full solution software available only for Windows 7 and newer, UPD software available only for Windows 7 and newer, HP Software for Mac and Windows is no longer included on the CD, but can be downloaded from 123.hp.com, Legacy Windows Operating Systems (XP, Vista, and equivalent servers) get print and Scan drivers only with a reduced feature set, Windows RT OS for Tablets (32- &amp; 64-bit) uses a simplified HP print driver built into the RT OS)</i>
<b>Sustainable impact specifications</b>	Mercury-free
<b>Energy star certified</b>	Yes
<b>Ecolabels</b>	CECP; Blue Angel; EPEAT® Silver registered; EPEAT® Gold registered; ENERGY STAR® certified
<b>Blue Angel compliant</b>	Yes, Blue Angel DE-UZ 219—only ensured when using Original HP supplies
<b>Copy speed (black, normal quality, A4)</b>	Up to 47 cpm
<b>Copy speed (color, normal quality, A4)</b>	Up to 47 cpm
<b>Copy speed black (normal, letter)</b>	Up to 50 cpm
<b>Copy speed color (normal, letter)</b>	Up to 50 cpm
<b>Copy speed black duplex (A4)</b>	Up to 47 cpm
<b>Copy speed black duplex (Letter)</b>	Up to 50 cpm
<b>Digital sending standard features</b>	Scan to E-mail; Scan-to-Sharepoint; 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

<b>Digital sending optional features</b>	Optional via HP Digital Sending Software (HP DSS); Send to folder; Send-to-workflow; Send-to-printer; Authentication; Digital fax (send to LAN, Internet); OCR; Local Address Book
<b>Fax Resolution Black (best)</b>	Up to 300 x 300 dpi (400 x 400 dpi for received faxes only)
<b>Faxing</b>	Yes
<b>Scan speed (normal, A4)</b>	Up to 83 ppm (b&w), up to 83 ppm (color)
<b>Scan speed (normal, letter)</b>	Up to 90 ppm (b&w), up to 90 ppm (color)
<b>Scan file format</b>	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) <sup>[19]</sup>
<b>Scan input modes</b>	Front panel applications: Copy; E-mail; Fax; Save to Network Folder; Save to USB; Save to Device Memory; Save to SharePoint; Open Extensibility Platform (XP) applications; HP Scan or user application via TWAIN
<b>Scan technology</b>	Charge Coupled Device (CCD)
<b>Scanner type</b>	Flatbed, ADF
<b>Display area (imperial)</b>	6.37 x 4.78 in
<b>Display area (metric)</b>	16.2 x 12.1 cm
<b>Display</b>	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)
<b>Minimum dimensions (W x D x H)</b>	657 x 657 x 1270 mm
<b>Minimum dimensions (W x D x H)</b>	25.87 x 25.87 x 50.00 in
<b>Weight</b>	76.3 kg <sup>[3]</sup>
<b>Weight</b>	168.1 lb
<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) <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>What's in the box</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 <sup>[2]</sup>
<b>Manufacturer Warranty</b>	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.

## Additional specifications

<b>ADF Capacity</b>	150
<b>Accessories</b>	HP Jetdirect 2900nw Print Server J8031A, HP Jetdirect 3000w NFC/Wireless Accessory J8030A, HP Trusted Platform Module Accessory F5S62A, HP Internal USB Ports B5L28A, HP Foreign Interface Harness B5L31A, HP 1GB DDR3 x32 144-Pin 800MHz SODIMM E5K48A, HP LaserJet Keyboard Overlay Kit for Simplified Chinese & Traditional Chinese A7W12A, HP LaserJet Swedish Overlay Keyboard A7W14A, HP Staple Cartridge Refill J8J96A, HP Accessibility Assistant 2MU47A, HP Accessibility Kit 2TD64A
<b>Acoustic power emissions (active copy)</b>	7.0 B(A)
<b>Acoustic power emissions (active scan)</b>	7.3 (A)
<b>Acoustic power emissions (active, printing)</b>	6.6 B(A)
<b>Acoustic power emissions (ready)</b>	4.6 B(A)
<b>Acoustic power note</b>	Printing mono simplex A4 at 47 ppm. Scanning mono simplex A4 at 96 ppm. Acoustic values are subject to change. For current information see <a href="http://www.hp.com/support">http://www.hp.com/support</a> .
<b>Acoustic pressure emissions bystander (active scan)</b>	58 dB(A)
<b>Acoustic pressure emissions bystander (active, printing)</b>	52 dB(A)
<b>Acoustic pressure emissions bystander (ready)</b>	32 dB(A)
<b>Auto fax reduction supported</b>	Yes
<b>Automatic document feeder capacity</b>	Standard, 150 sheets
<b>Automatic paper sensor</b>	Yes
<b>Best technical electricity consumption (TEC)</b>	2.24 kWh/Week
<b>Bit depth</b>	24-bit
<b>Blue Angel (sleep mode)</b>	0.73 Watts
<b>Bottom margin (A4)</b>	4.3 mm
<b>Business filter</b>	cMPS
<b>Cable included</b>	No, please purchase USB and Fax cables separately
<b>Capacity</b>	500 GB
<b>Cartons per layer</b>	1
<b>Color or black</b>	Color
<b>Color scanning</b>	Yes

<b>Compatible Network Operating Systems</b>	Windows 11; Windows Server; Linux; Citrix; Novell
<b>Component type</b>	Printer
<b>Control panel</b>	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
<b>Copier scaling (ADF)</b>	25 to 200%
<b>Copier settings</b>	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>Copies, maximum</b>	Up to 9999
<b>Copy resolution (black graphics)</b>	Up to 600 x 600 dpi
<b>Copy resolution (black text)</b>	Up to 600 x 600 dpi
<b>Copy resolution (color text and graphics)</b>	Up to 600 x 600 dpi
<b>Copy speed color duplex (A4)</b>	Up to 47 cpm
<b>Copy speed color duplex (Letter)</b>	Up to 50 cpm
<b>Count of layers in pallet</b>	1
<b>Country of origin</b>	Made in Mexico (NA); Made in Netherlands (EMEA); Made in China (AP)
<b>Distinctive ring detection supported</b>	No
<b>Downloadable software</b>	HP Easy Start (Guided Software Install for Windows OS and Mac); HP ePrint Software (ePrint Mobile Driver for Windows); HP ePrint Software (for Windows); HP JetAdvantage Security Manager; HP PC Send Fax; HP Mobile Printing <a href="http://www8.hp.com/us/en/ads/mobility/overview.html">http://www8.hp.com/us/en/ads/mobility/overview.html</a> ; HP PCL6 (XPS) print driver only (No installer for "Add Printer" installs); HP PCL6 (XPS) print driver with installer, Product Documentation and Support; HP Proxy Agent Software; HP Universal Print Drivers (PCL6 & PS for Windows); Linux/Unix Print Drivers; Mac Software Solution; Printer Administrator Resource Kit; SAP (PS Print Drivers); Web JetAdmin; Windows driver only solution; Windows Full Software Solution
<b>Driver updates</b>	Current HP printer drivers and software can be obtained from the HP Customer Care Web site: In the US, go to <a href="http://www.hp.com/support/colorljM681MFP">www.hp.com/support/colorljM681MFP</a> ; Outside the US, go to <a href="http://www.hp.com/support">http://www.hp.com/support</a> . 1. Go to <a href="http://www.hp.com/support">http://www.hp.com/support</a> . Select the country/region. 2. Select Drivers & Downloads 3. Enter a product name/number. 4. Under Download Options, select Drivers, Software & Firmware 5. Select the operating system version. 6. Then select DOWNLOAD.
<b>Duplex ADF scanning</b>	Yes
<b>Duty cycle note</b>	HP recommends that the number of printed pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.

**Electromagnetic compatibility**

CISPR 22:2008 (International) - Class A, CISPR 32:2012 (International) - Class A, EN 55032: 2012 (EU) - Class A, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 55024: 2010, EMC Directive 2014/30/EU, FCC CFR 47 Part 15 Class A / ICES-003, Issue 6 Class A, Other EMC approvals as required by individual countries

<b>Engine life</b>	800000
<b>Enhanced scanning resolution</b>	Up to 600 dpi
<b>Envelope Feeder</b>	No
<b>FCC Class A emissions</b>	FCC Class A emissions - for use in commercial environments, not residential environments
<b>Fax Auto Redial</b>	Yes
<b>Fax Broadcast Locations</b>	210
<b>Fax PC Interface Supported</b>	Yes
<b>Fax Polling</b>	Yes (poll to receive only)
<b>Fax Remote Retrieval</b>	No
<b>Fax Speed Dials, Maximum Number</b>	Up to 1000 numbers (each with 210 destinations)
<b>Fax Transmission Speed</b>	33.6 kbps
<b>Fax Transmission Speed Note</b>	Based on standard ITU-T test image #1 at standard resolution and MMR encoding, the HP fax device can transmit at 3 sec/page for V.34 and 6 sec/page for V.17
<b>Fax delayed sending</b>	No
<b>Fax forwarding</b>	Yes
<b>Fax memory</b>	Up to 500 pages
<b>Fax memory</b>	Up to 500 pages
<b>Fax phone TAM interface supported</b>	No
<b>Fax resolution black</b>	203 x 196 dpi
<b>Fax telephone mode supported</b>	No
<b>Fax transmission speed (letter)</b>	3 sec per page
<b>File Format Supported</b>	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)
<b>Finished output handling</b>	Input: Sheetfed; Output: Staple; Stack; Job Offset
<b>First copy out black (A4)</b>	As fast as 6.7 sec
<b>First copy out black (A4, sleep)</b>	As fast as 17.6 sec
<b>First copy out black (letter)</b>	As fast as 6.6 sec
<b>First copy out black (letter, sleep)</b>	As fast as 17.5 sec
<b>First copy out color (A4)</b>	As fast as 7.2 sec



<b>First copy out color (A4, sleep)</b>	As fast as 17.6 sec
<b>First copy out color (letter)</b>	As fast as 7.1 sec
<b>First copy out color (letter, sleep)</b>	As fast as 17.5 sec
<b>First page out black (A4, ready)</b>	As fast as 6.5 sec
<b>First page out black (A4, sleep)</b>	As fast as 13.3 sec
<b>First page out black (letter, ready)</b>	As fast as 6.4 sec
<b>First page out black (letter, sleep)</b>	As fast as 13.2 sec
<b>First page out color (A4, ready)</b>	As fast as 6.5 sec
<b>First page out color (A4, sleep)</b>	As fast as 13.3 sec
<b>First page out color (letter, ready)</b>	As fast as 6.4 sec
<b>First page out color (letter, sleep)</b>	As fast as 13.2 sec
<b>Fonts and typefaces</b>	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 <a href="http://www.hp.com/go/laserjetfonts">http://www.hp.com/go/laserjetfonts</a>
<b>HP ePrint capability</b>	Yes
<b>Input capacity</b>	Up to 2300 sheets
<b>Internal Storage</b>	Standard, minimum 500 GB HP High-Performance Secure Hard Disk (AES 256 hardware encryption or greater)
<b>Junk fax barrier</b>	Yes
<b>Left margin (A4)</b>	4.3 mm
<b>Levels of grayscale</b>	256
<b>Mac compatible</b>	Yes
<b>Maximum Input Capacity (envelopes)</b>	MP Tray: Up to 10 envelopes (or 10mm stack height)
<b>Maximum Memory</b>	4.5 GB
<b>Maximum dimensions (W x D x H)</b>	39.06 x 38.07 x 60.20 in
<b>Maximum dimensions (W x D x H)</b>	992 x 967 x 1529 mm
<b>Maximum input capacity (sheets)</b>	Up to 2300 sheets
<b>Maximum metric depth</b>	967
<b>Maximum metric height</b>	1529
<b>Maximum metric width</b>	992
<b>Maximum output capacity (sheets)</b>	Up to 1,000 sheets
<b>Maximum print area</b>	207.4 x 347.1 mm
<b>Media size (ADF)</b>	Letter; legal; oficio; executive; statement; 16K; A4; RA4; A5; A6; B5; B6 (JIS); Postcard (JIS); DPostcard (JIS); 4 x 6 in; 5 x 7 in; 5 x 8 in; 68 x 147 mm to 215.9 x 863.6 mm; 2.68 x 5.79 in to 8.46 x 34 in

<b>Media size, tray 1</b>	A4, A5, A6, RA4, B5, B6, 16k, 10 x 15 cm, Oficio, postcards (JIS single and double) envelopes (DL, C5, B5, C6); 76 x 127 to 216 x 356 mm
<b>Media size, tray 2</b>	A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard, envelopes (DL, C5, B5, C6); 101.6 x 148 to 216 x 356 mm
<b>Media size, tray 3</b>	A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard, 101.6 x 148 to 216 x 356 mm
<b>Media sizes supported</b>	Tray 1: A4, A5, A6, RA4, B5, B6, 16k, 10 x 15 cm, Oficio, postcards (JIS single and double) envelopes (DL, C5, B5, C6); Trays 2, 3, 4, 5: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard
<b>Media sizes supported</b>	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
<b>Media sizes, custom</b>	Tray 1: 76 x 127 to 216 x 356 mm; Trays 2, 3, 4, 5: 101.6 x 148 to 216 x 356 mm
<b>Media sizes, custom</b>	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
<b>Media type and capacity, ADF</b>	Sheets: 150
<b>Media type and capacity, tray 1</b>	Paper: 100 sheets of 75 g/m <sup>2</sup> media; Envelopes: 10
<b>Media type and capacity, tray 2</b>	Plain media (75 g/m <sup>2</sup> ) sheets: 550 (55 mm stack height); Glossy media sheets (120 g/m <sup>2</sup> ): 250 (30 mm stack height)
<b>Media type and capacity, tray 3</b>	Plain media (75 g/m <sup>2</sup> ) sheets: 550 (55 mm stack height); Glossy media sheets (120 g/m <sup>2</sup> ): 250 (30 mm stack height)
<b>Media types</b>	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
<b>Media weight (tray 1)</b>	60 to 220 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy)
<b>Media weight (tray 2)</b>	60 to 163 g/m <sup>2</sup> (plain); 120 to 220 g/m <sup>2</sup> (glossy)
<b>Media weight (tray 3)</b>	60 to 163 g/m <sup>2</sup> (plain); 120 to 220 g/m <sup>2</sup> (glossy)
<b>Media weight, supported</b>	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);
<b>Media weight, supported</b>	Tray 1: 60-220 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); Trays 2, 3, 4, 5: 60 to 163 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy)
<b>Media weights, supported ADF</b>	12 to 53 lb
<b>Media weights, supported ADF</b>	45 to 199 g/m <sup>2</sup>
<b>Memory</b>	1.5 GB (printer); 1 GB (scanner)
<b>Memory Slots</b>	1 slot, 144-pin, DDR3 DIMM
<b>Memory footnote</b>	Maximum physical memory present is reported. Actual usable amount by firmware might be less.
<b>Memory upgrade</b>	Expandable to 4.5 GB through one 144-pin DDR3 DIMM slot
<b>Metric depth</b>	657
<b>Metric height</b>	1270
<b>Metric width</b>	657

<b>Minimum System Requirements</b>	2 GB available hard disk space; OS hardware requirements see microsoft.com
<b>Minimum System Requirements for Macintosh</b>	1.3 GB available hard drive space; Internet; OS hardware requirements see Apple.com for more info
<b>Model number</b>	Flow M681z
<b>Multitasking supported</b>	Yes
<b>Native scan file format</b>	PDF, JPG, TIF, MTIF
<b>Network ready</b>	Standard (built-in Gigabit Ethernet)
<b>Non-Operating Humidity Range</b>	10 to 90% RH
<b>Number of print cartridges</b>	4 (1 each black, cyan, magenta, yellow)
<b>Number of users</b>	10-30 Users
<b>Operating humidity range</b>	10 to 80% RH
<b>Operating temperature range</b>	15 to 30°C
<b>Operating temperature range</b>	59 to 86°F
<b>Orderable product number</b>	J8A13A#AB0, J8A13A#AB2, J8A13A#ABJ, J8A13A#ACJ, J8A13A#BBU, J8A13A#BGM, J8A13A#ABT, J8A13A#ABY, J8A13A#ACQ, J8A13A#B13, J8A13A#B19, J8A13A#BAZ, J8A13A#201, J8A13A#AAZ, J8A13A#BGJ
<b>Orderable supplies</b>	HP LaserJet 110 V Maintenance Kit P1B91A, HP LaserJet 220 V Maintenance Kit P1B92A, HP LaserJet Image Transfer Belt Kit, HP LaserJet Toner Collection Unit P1B94A, HP 300 ADF Roller Replacement Kit J8J95A
<b>Output capacity</b>	Up to 1,000 sheets
<b>Package dimensions (W x D x H)</b>	856 x 760 x 1684 mm
<b>Package dimensions (W x D x H)</b>	33.7 x 29.9 x 66.3 in
<b>Package weight</b>	210.9 lb
<b>Package weight</b>	95.7 kg
<b>Pallet dimensions</b>	33.7 x 29.9 x 66.3 in
<b>Pallet dimensions (W x D x H)</b>	856 x 760 x 1684 mm
<b>Pallet weight</b>	210.9 lb
<b>Pallet weight</b>	95.7 kg
<b>Paper handling input, standard</b>	100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 4, 5, 150-sheet automatic document feeder
<b>Paper handling output, standard</b>	500-sheet output tray, 500 sheet output stapler stacker, two-sided printing
<b>Paper trays, maximum</b>	5
<b>Paper trays, standard</b>	5
<b>Ports</b>	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit Ethernet; 1 Hardware Integration Pocket; 1 Fax
<b>Post warranty repair &amp; maintenance</b>	Please consult web site <a href="http://www.hp.com/support">http://www.hp.com/support</a>

<b>Power</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. Not dual voltage, power supply varies by part number with # Option code identifier.
<b>Print Technology</b>	Laser
<b>Print colors</b>	Yes
<b>Print languages</b>	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7), URF (AirPrint)
<b>Print quality black (normal)</b>	Up to 600 x 600 dpi
<b>Print resolution black (fine lines)</b>	Up to 1200 x 1200 dpi
<b>Print resolution color (fine lines)</b>	Up to 1200 x 1200 dpi
<b>Print resolution color (normal)</b>	Up to 600 x 600 dpi
<b>Print speed black (Landscape, A5)</b>	Up to 74 ppm
<b>Print speed black (Portrait, A5)</b>	Up to 4 ppm
<b>Print speed color (Landscape, A5)</b>	Up to 74 ppm
<b>Print speed color (Portrait, A5)</b>	Up to 4 ppm
<b>Print speed duplex (A4)</b>	Up to 47 ppm
<b>Print speed duplex (A4)</b>	Up to 47 ppm
<b>Print speed duplex (letter)</b>	Up to 50 ppm
<b>Print speed duplex (letter)</b>	Up to 50 ppm
<b>Print speed footnote number (A5)</b>	[12]
<b>Print technology</b>	Laser
<b>Printer Management</b>	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
<b>Printer black pages (MPV black)</b>	2400
<b>Printer color pages (MPV color)</b>	1600
<b>Processor speed</b>	1.2 GHz
<b>Product long name specifications</b>	HP Color LaserJet Enterprise Flow MFP M681z, Color Printer for Business, Print, copy, scan, fax, Automatic document feeder; Flow; Scan to email; Two-sided printing; Scan to PDF; Touchscreen; Optional Stapling
<b>Product short name specifications</b>	HP LaserJet Enterprise Flow M681z Multifunction Color Printer, Ethernet Only; Copier, Scanner
<b>Quantity per pallet</b>	1
<b>RMN number</b>	BOISB-1503-03
<b>Recommended media weight (duplex)</b>	16 to 90 lb (plain); 32 to 58 lb (glossy)
<b>Recommended media weight (duplex)</b>	60 to 163 g/m <sup>2</sup> (plain); 120 to 220 g/m <sup>2</sup> (glossy)
<b>Recommended monthly page volume</b>	2000 to 14,000

<b>Recommended monthly page volume note</b>	HP recommends that the number of printed pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.
<b>Recommended monthly scan volume</b>	26,750 to 44,500
<b>Recommended monthly scan volume note</b>	HP recommends that the number of scanned pages per month be within the stated range for optimum device performance
<b>Recommended operating humidity range</b>	30 to 70% RH
<b>Recommended operating temperature range</b>	17.5 to 25°C
<b>Recommended operating temperature range</b>	63.5 to 77°F
<b>Resolution</b>	Up to 600 dpi
<b>Resolution (black and white, standard mode)</b>	203 x 98 dpi
<b>Resolution (black and white, superfine mode)</b>	203 x 392 dpi or 300 x 300
<b>Resolution (black photo grayscale)</b>	300 x 300 dpi (400 x 400 dpi for received faxes only)
<b>Right margin (A4)</b>	4.3 mm
<b>Safety</b>	EC 60950-1:2005 +A1:2009 +A2:2013 (International); EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013 (EU); EN 60825-1:2014 / IEC 60825-1:2014 (Class 1 Laser Product); EN 62479:2010 / IEC 62479:2010; Low Voltage Directive 2014/35/EU with CE Mark (Europe); GS Certificate (Germany, Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 Amendment 2:2014; Other safety approvals as required by individual countries
<b>Scan resolution, hardware</b>	Up to 600 x 600 dpi
<b>Scan resolution, optical</b>	Up to 600 dpi
<b>Scan size (ADF), maximum</b>	8.5 x 34.0 in
<b>Scan size (ADF), maximum</b>	215.9 x 863.6 mm
<b>Scan size (ADF), minimum</b>	68 x 147 mm
<b>Scan size (ADF), minimum</b>	2.7 x 5.8 in
<b>Scan size, maximum</b>	216 x 356 mm
<b>Scan size, maximum</b>	8.5 x 14 in
<b>Scan size, minimum</b>	No Minimum Size
<b>Scan size, minimum</b>	No Minimum Size
<b>Scan speed duplex (normal, A4)</b>	Up to 167 ipm (b&w), up to 167 ipm (color)
<b>Scan speed duplex (normal, letter)</b>	Up to 180 ipm (b&w), up to 180 ipm (color)

**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 accessible in Arcsight and Splunk SIEMs

<b>Standard media sizes (duplex)</b>	A4; A5; RA4; B5; Oficio; 16k
<b>Standard media sizes (duplex, imperial)</b>	Letter, legal, executive, Oficio
<b>Standard output capacity (envelopes)</b>	Up to 85 envelopes
<b>Standard output capacity (transparencies)</b>	Up to 200 sheets
<b>Storage temperature range</b>	-4 to 104°F
<b>Storage temperature range</b>	-20 to 40°C
<b>Sub-brand name</b>	Color LaserJet
<b>Target user and print volume</b>	For teams over 25 users; Prints up to 14,000 pages/month
<b>Tariff numbers</b>	8443310000 (AM-Base-HTS); 8443318000 (EU-Base-HTS); 84433120 (AP-Base-HTS)
<b>Telecom compliance (fax capability)</b>	ES 203 021-1 v2.1. 1; ES 203 021-2 v2.1.2; ES 203 021-3 v2.1.2; FCC Rules and Regulations 47 CFR Part 68; Other Telecom approvals as required by individual countries
<b>Telephone handset supported</b>	No
<b>Top margin (A4)</b>	4.3 mm
<b>Tray capacity</b>	2300
<b>Twain version</b>	Version 2.1
<b>Typical electricity consumption (TEC) number</b>	2.68 kWh/Week (Blue Angel); 0.672 kWh/Week (Energy Star 3.0) <sup>[6]</sup>
<b>UNSPSC code</b>	43212110
<b>UPC number</b>	(201) 889894829795; (AB0) 889894744043; (AB2) 889894744050; (ABJ) 889894744067; (ABT) 889894744104; (ABY) 889894744111; (ACJ) 889894744074; (ACQ) 889894744128; (B13) 889894744135; (B19) 889894829832; (BAZ) 889894829849; (BBU) 889894744081; (BGJ) 889894829856; (BGM) 889894744098
<b>Warm-up time</b>	195 Sec

**Web address for additional information**

Solutions: <http://www.hp.com/go/gsc>; Fonts and IPDS Emulation: <http://www.hp.com/go/laserjetfonts>; HP Web Jetadmin: <http://www.hp.com/go/wja>; HP Universal Print Driver: <http://www.hp.com/go/upd>; HP JetAdvantage Security Manager: [www.hp.com/go/securitymanager](http://www.hp.com/go/securitymanager); HP JetAdvantage On Demand Cloud Solutions: [www.hp.com/go/JetAdvantageondemand](http://www.hp.com/go/JetAdvantageondemand)

---

*[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*

*[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 typically 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.*

*[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>*

*[19] Scan software not included in box. HP Scan and TWAIN driver available for download at <http://hp.com/support>*

---

## Ink/Toner/Paper/Printer Supplies

### HP Laser Toner Cartridges and Kits

★ : Recommended

#### HP Laser Printer Supply Kits

HP 300 ADF Roller Replacement Kit	J8J95A ★
HP LaserJet 110V Fuser Kit	P1B91A ★
HP LaserJet 220V Fuser Kit	P1B92A ★
HP LaserJet Image Transfer Belt	P1B93A ★
HP LaserJet Toner Collection Unit	P1B94A ★
HP 300 ADF Roller Replacement Kit	J8J95A

#### HP Color Laser Toner Printer Cartridges

HP 655A Black Original LaserJet Toner Cartridge	CF450A
HP 655A Cyan Original LaserJet Toner Cartridge	CF451A
HP 655A Magenta Original LaserJet Toner Cartridge	CF453A
HP 655A Yellow Original LaserJet Toner Cartridge	CF452A
HP 657X High Yield Black Original LaserJet Toner Cartridge	CF470X
HP 657X High Yield Cyan Original LaserJet Toner Cartridge	CF471X
HP 657X High Yield Magenta Original LaserJet Toner Cartridge	CF473X
HP 657X High Yield Yellow Original LaserJet Toner Cartridge	CF472X

### HP Business Papers

#### HP Business Papers for laser

HP Enhanced Business Paper, Glossy, 150 g/m <sup>2</sup> , A4 (210 x 297 mm), 150 sheets	CG965A
HP Everyday Business Paper, Glossy, 32 lb, 8.5 x 11 in. (216 x 279 mm), 150 sheets	4WN08A
HP Professional Business Paper Glossy 200 g/m <sup>2</sup> A4 (210 x 297 mm) 150 sheets	7MV83A
HP Professional Business Paper Glossy 52 lb 8.5 x 11 in. (216 x 279 mm) 150 sheets	4WN10A
HP Professional Business Paper Matte 200 g/m <sup>2</sup> A4 (210 x 297 mm) 150 sheets	7MV80A
HP Professional Business Paper Matte 52 lb 8.5 x 11 in. (216 x 279 mm) 150 sheets	4WN05A

### HP Home & Office Papers



## HP Home & Office Papers for laser and inkjet

HP MultiPurpose20TM, 20 lb, 11 x 17 in. (279 x 432 mm), 250 sheets	HPM1720P
HP MultiPurpose20TM, 20 lb, 8.5 x 11 in. (216 x 279 mm), 500 sheets	HPM1120R
HP MultiPurpose20TM, 20 lb, 8.5 x 14 in. (216 x 356 mm), 500 sheets	HPM1420P

## HP Paper for Multiple Uses

### HP Recycled Paper

HP Multipurpose Recycled Paper-500 sht/Letter/8.5 x 11 in	4WN07A
HP Multipurpose Recycled Paper-500 sht/Letter/8.5 x 11 in	4WN11A
HP Multipurpose Recycled Paper-500 sht/Letter/8.5 x 11 in	7MV81A
HP Multipurpose Recycled Paper-500 sht/Letter/8.5 x 11 in	7MV82A

## HP Paper Designed for Inkjet Printers

### HP Inkjet Photo Paper

HP Professional Business Paper, Glossy, 48 lb, 8.5 x 11 in. (216 x 279 mm), 50 sheets	6MF93A
---	--------

## Accessories

### Paper Handling

★ : Recommended

#### Staple Cartridges

HP Staple Cartridge Refill	J8J96A ★
----------------------------	----------

#### Fax Upgrades

HP MFP Analog Fax Accessory 701	5UT59A
---------------------------------	--------

### Memory

#### DDR3 Memory

HP 1 GB x32 144-pin (800 MHz)DDR3 SODIMM	E5K48A ★
--	----------

HP 2 GB x32 144-pin (800 MHz) DDR3 SODIMM	E5K49A ★
---	----------

HP 2GB 144-Pin DDR3 TAA Version DIMM	2NR09A ★
--------------------------------------	----------

### Accessory Bundles

#### Printer Accessibility Accessories

HP Accessibility Assistant	2MU47A ★
----------------------------	----------

HP Accessibility Kit	2TD64A ★
----------------------	----------

HP Printing Voice Assistant	478C2A
-----------------------------	--------

#### Data Security Accessories

HP Removable Hard Drive Enclosure	2NR12A ★
-----------------------------------	----------

### Cables/Cable Kits/Cable Adapters

#### Printer Cables

HP Foreign Interface Harness	B5L31A ★
------------------------------	----------

#### Port Cables and Cable Adapters

HP Internal USB Ports	B5L28A ★
-----------------------	----------

### Network Print Servers

#### External Print Servers

HP Jetdirect 2900nw Print Server	J8031A ★
----------------------------------	----------

HP Jetdirect 3000w NFC/Wireless Accessory	J8030A ★
---	----------

HP Jetdirect 3100w BLE/NFC/Wireless Accessory	3JN69A ★
---	----------

## Internal Print Servers

HP Jetdirect LAN Accessory	8FP31A ★
----------------------------	----------

## Keyboards/Mice and Input Devices

### Keyboards

HP LaserJet Swedish Overlay Keyboard	A7W14A ★
--------------------------------------	----------

HP LaserJet Keyboard Overlay Kit for Simplified Chinese & Traditional Chinese	A7W12A
---	--------

HP LaserJet Keyboard Overlay Kit-Danish/French-Switzerland/German-Switzerland	A7W13A
---	--------

## Security and Protection

### Security Devices

HP Trusted Platform Module Accessory	F5S62A ★
--------------------------------------	----------

### Smart Cards and SmartCard Readers

HP USB Universal Card Reader	X3D03A ★
------------------------------	----------

HP SmartCard NIPRNet Solution for US Government	CC543B
---	--------

## PC Drives and Storage

### EIO Hard Drives

HP High-Performance Secure Hard Disk	B5L29A
--------------------------------------	--------

HP TAA Version Secure Hard Disk Drive	5EL03A
---------------------------------------	--------

# Solutions

## Imaging and Printing Solutions

★ : Recommended

### Printing SW Solution Licenses

HP HID Mobile Access Mifare DES Fire Keystroking Reader	35H11A ★
---	----------

## HP Document and Workflow Solutions

### HP Document and Workflow Solutions Printing Security

Celiveo Enterprise	HP3PCELIVEO
HP Access Control Secure Printing and Job Accounting Solution	HPACSOLUTION
HP Proximity Card Reader	HPPROXIMTYRDR
HP Secure Print and Insights	HPJETADSECUREPRINT
HP Security Manager	HPJETADSECMGR
Kofax SafeCom Security and Job Accounting Solution	HPNSAFECOMSOL
LRS MFPsecure	LRS_MFPSECURE
MyQ Solutions	MYQSOL
Pharos Blueprint	HP3PHAROSBPRNT

### HP Document and Workflow Solutions Printer Workflow

HP Capture and Route	HPCAPTANDROUTE
HP Workpath Apps	HPJA_AP

### HP Document and Workflow Solutions Mobile Printing

HP Roam for Business	HPROAM
ePRINTit	HP3PEPRINTIT

### HP Document and Workflow Solutions Print Management

HP Universal Print Driver	HPUNIVPRNTDRV
HP Web Jetadmin	HPWEBJETADMIN
Kofax ControlSuite	HP_CSUITE
LRS VPSX for Output Management	HP3PLRS
YSoft SafeQ	YSOFT

## Print Security Solutions

### Print Security



## Services

### HP Care Pack Services

★ : Recommended

#### Imaging and Printing Hardware Support Onsite Svc

HP 1 year Post Warranty 4 hour 9x5 Service w/DMR for Color LaserJet Enterprise MFP M68x	U9NX3PE
HP 1 year Post Wty NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x	U9NX1PE
HP 3 year 4 hour 9x5 Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x	U9NP6E
HP 3 year NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x	U9NP3E
HP 4 year 4 hour 9x5 Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x	U9NP7E
HP 4 year NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x	U9NP4E
HP 5 year 4 hour 9x5 Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x	U9NP8E
HP 5 year NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x	U9NP5E

#### Imaging and Printing Commercial Care Pack Services

HP 1 year Post Wty NBD Parts Exchange Service for Color LaserJet Enterprise MFP M68x (Channel Only)	U9NX9PE
HP 3 year Next Business Day Parts Exchange Svc for Color LaserJet Enterprise MFP M68x (Channel Only)	U9NQ5E
HP 4 year Next Business Day Parts Exchange Svc for Color LaserJet Enterprise MFP M68x (Channel Only)	U9NQ6E
HP 5 year Next Business Day Parts Exchange Svc for Color LaserJet Enterprise MFP M68x (Channel Only)	U9NQ7E
HP Installation Service with network configuration for Workgroup Printer(1 unit)	U9JT2E

---

## Disclaimer — Copyright

© Copyright 2024 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.