HP Color LaserJet Enterprise MFP M681/M682 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 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 9 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.
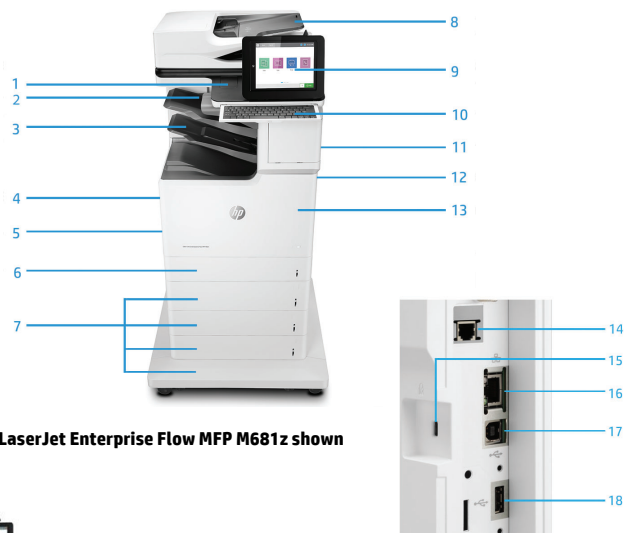
More Pages, Performance, and Protection[4]

- 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.

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. 3x500-sheet paper feeder and stand[3]
8. 150-sheet ADF with single-pass, two-sided scanning and HP EveryPage[4]
9. 20.3 cm (8-inch) icon-based colour 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

HP Color LaserJet Enterprise Flow MFP M681z shown

550-sheet Paper Feeder (P1B09A)

550-sheet Paper Feeder with Stand and Cabinet (P1B10A)

3x550-sheet Paper Feeder and Stand (P1B11A)

1x550-sheet/2,000-sheet HCI Feeder and Stand (P1B12A)

Series at a glance

Model

	HP Color LaserJet Enterprise MFP M681dh	HP Color LaserJet Enterprise MFP M681f	HP Color LaserJet Enterprise Flow MFP M681z	HP Color LaserJet Enterprise Flow MFP M682zz
Product number	J8A10A	J8A11A	J8A13A	J8A17A
Print speeds (A4)[6]	Up to 47 pages per minute (ppm)	Up to 47 ppm	Up to 47 ppm	Up to 56 ppm
Fax capabilities	Optional	Yes	Yes	Yes
100-sheet tray 1, 550-sheet tray 2	Yes	Yes	Yes	Yes
550-sheet paper feeder	Optional (up to two)[7]	Not available	Not available	Not available
550-sheet paper feeder with stand and cabinet	Optional[7]	Yes	Not available	Not available
3x550-sheet paper feeder and stand	Optional[7]	Not available	Yes	Not available
1x550-sheet/2,000-sheet HCI feeder and stand	Optional[7]	Not available	Not available	Yes
3-bin stapler/stacker with offset job printing	Not available	Not available	Yes	Yes
Advanced workflow features including pull-out keyboard	Not available	Not available	Yes	Yes
Direct mobile printing	Optional wireless direct[8]/NFC[9]	Optional wireless direct[8]/NFC[9]	Optional wireless direct[8]/NFC[9]	Embedded Wi-Fi Direct®[8]/Bluetooth® Low Energy[10]
Wireless networking	Optional[11]	Optional[11]	Optional[11]	Optional[11]

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.

Choose from:

Optimized Care (optimum performance and stability):
4 hour Onsite Support, Maintenance Kit Replacement Service, Installation with Network Configuration Service

Standard Care (high level of uptime):
Next Business Day Onsite Support, Maintenance Kit Replacement Service, Installation with Network Configuration Service

Basic Care (minimum recommended support):
Next Business Day Onsite Support

4 hr Onsite Support:
Onsite support within four hours after a service call received within the coverage window

Next Business Day Onsite Support:
Onsite service the next business day after the service call is received

Maintenance Kit Replacement Service:
Onsite replacement of your printer's maintenance kit including parts, materials, and labor

Installation with Network Configuration Service:
Assembly, network configuration, and basic administrator familiarization
For more information about HP Care Pack, HP Contractual, or HP Managed Print Services, visit hp.com/go/printservices

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.

Product

J8A10A	HP Color LaserJet Enterprise MFP M681dh
J8A11A	HP Color LaserJet Enterprise MFP M681f
J8A13A	HP Color LaserJet Enterprise Flow MFP M681z
J8A17A	HP Color LaserJet Enterprise Flow MFP M682z

Accessories

B5L28A	HP Internal USB Ports
B5L31A	HP Foreign Interface Harness
CC487A	HP LaserJet MFP Analog Fax Accessory 500
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
J8J96A	HP Staple Cartridge Refill
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 HCI Feeder and Stand

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)
P1B91A	HP LaserJet 110V Maintenance Kit (yield 150K)
P1B92A	HP LaserJet 220V Maintenance Kit (yield 150K)
P1B93A	HP LaserJet Image Transfer Belt Kit (yield 150K)
P1B94A	HP LaserJet Toner Collection Unit (yield 100K)
J8J95A	HP 300 ADF Roller Replacement Kit (yield 150K)

HP Care Packs

U9NP3E	HP 3 year NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x
U9NP4E	HP 4 year NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x
U9NP5E	HP 5 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
U9NP7E	HP 4 year 4 hour 9x5 Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x
U9NP8E	HP 5 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
U9NX2PE	HP 2 year Post Wty NBD Service w/Defective Media Retention for Color LaserJet Enterprise MFP M68x
U9NX3PE	HP 1 year Post Warranty 4 hour 9x5 Service w/DMR for Color LaserJet Enterprise MFP M68x
U9NX4PE	HP 2 year Post Warranty 4 hour 9x5 Service w/DMR for Color LaserJet Enterprise MFP M68x

Protect your investment with HP Care Pack. Let HP certified engineers resolve your technical issues.
For more details on HP Care Pack, go to hp.com/go/cpc

Paper
Contact HP via phone: Asia: 65 6253 8500

Solutions
HP Web Jetadmin: hp.com/go/wja
HP Universal Print Driver: hp.com/go/upd
HP Imaging and Printing Security Center: hp.com/go/ipsc

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 M681z
Product number	J8A10A	J8A11A	J8A13A
Functions	Print, copy, scan	Print, copy, scan, fax	

Print

Duplex print options	Automatic (standard)		
Print speed[11]	**Black (normal, A4):** Up to 47 ppm; **Black (normal, letter):** Up to 50 ppm; **Black (Landscape, A5):** Up to 74 ppm; **Black (Duplex, A4):** Up to 47 ppm; **Black (Duplex, letter):** Up to 50 ppm **Color (normal, A4):** Up to 47 ppm; **Color (normal, letter):** Up to 50 ppm; **Color (Landscape, A5):** Up to 74 ppm; **Color (Duplex, A4):** Up to 47 ppm; **Color (Duplex, letter):** Up to 50 ppm		
First page out[13]	**Black (A4, ready):** As fast as 6.5 sec; **Black (A4, sleep):** As fast as 9 sec **Color (A4, ready):** As fast as 6.5 sec; **Color (A4, sleep):** As fast as 9 sec	**Black (A4, ready):** As fast as 6.5 sec; **Black (A4, sleep):** As fast as 9 sec **Color (A4, ready):** As fast as 6.5 sec; **Color (A4, sleep):** As fast as 9 sec	
Print technology	Laser		
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 resolution technology	HP ImageRet 3600; 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); Pantone© Calibrated		
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7), URF (AirPrint)		
Printer management	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		

Scan

Scan type technology	**Type:** Flatbed, ADF; **Technology:** Charge Coupled Device (CCD)		
Scan speed[18]	**Normal, A4:** Up to 69 ppm/111 ipm (b&w), up to 69 ppm/111 ipm (color)		**Normal, A4:** Up to 83 ppm/167 ipm (b&w), up to 83 ppm/167 ipm (color)
Scan resolution	**Enhanced:** Up to 600 dpi **Hardware:** Up to 600 x 600 dpi; **Optical:** Up to 600 dpi		
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 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	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
Color scanning	Yes		
Scan size	**Flatbed:** 220 x 365 mm; **ADF scan size:** 215.9 x 863.6 mm		
Scan input mode	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 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)

Copy

Copy speed[15]	**Black (normal, A4):** Up to 47 cpm; **Black (normal, letter):** Up to 50 cpm **Color (normal, A4):** Up to 47 cpm; **Color (normal, letter):** Up to 50 cpm; **Color (Duplex, A4):** Up to 47 cpm; **Color Duplex (letter):** Up to 50 cpm		
First copy out	**Black (A4):** As fast as 6.7 sec; **Color (A4):** As fast as 7.2 sec; **Black (A4, sleep):** As fast as 13.3 sec; **Color (A4, sleep):** As fast as 13.3 sec; **Black (letter):** As fast as 6.6 sec; **Black (letter, sleep):** As fast as 13.2 sec	**Black (A4):** As fast as 6.7 sec; **Color (A4):** As fast as 7.2 sec; **Black (A4, sleep):** As fast as 13.3 sec; **Color (A4, sleep):** As fast as 13.3 sec; **Black (letter):** As fast as 6.6 sec; **Black (letter, sleep):** As fast as 13.2 sec	
Copy resolution	**Black (text and graphics):** Up to 600 x 600 dpi **Color (text and graphics):** Up to 600 x 600 dpi		
Max no 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	No	33.6 kbps	
Fax memory	No	**Fax memory (A4):** Up to 500 pages; **Fax memory (letter):** Up to 500 pages	
Fax resolution	No	Up to 300 x 300 dpi (400 x 400 dpi for received faxes only)	
Fax features	No	**Auto fax reduction supported:** Yes; **Auto-redialing:** Yes; **Fax delayed sending:** No; **Distinctive ring detection supported:** No; **Fax forwarding supported:** Yes; **Junk barrier supported:** Yes; **Maximum speed dialing numbers:** Up to 1000 numbers (each with 210 destinations); **PC interface supported:** Yes; **Fax polling supported:** Yes (poll to receive only)	
Fax smart software features	No	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule	

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	
Mobile print capability	HP ePrint; Apple AirPrint™; Mopria™-certified; Google Cloud Print 2.0		
Network ready	Standard (built-in Gigabit Ethernet)		
Wireless capability	Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A or HP Jetdirect 3000w NFC/Wireless Accessory J8030A		
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).		
Memory	**Standard:** 1.5 GB (printer); 512 MB (scanner); **Maximum:** 2.5 GB		**Standard:** 1.5 GB (printer); 1 GB (scanner); **Maximum:** 3 GB
Processor speed	1.2 GHz		
Duty cycle (monthly)	Up to 100,000 pages; 2000 to 14,000		

Paper handling

Input	100-sheet multi-purpose tray, 550-sheet input tray 2, 150-sheet automatic document feeder	100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 150-sheet automatic document feeder	100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 4, 5, 150-sheet automatic document feeder
Output	500-sheet output tray, two-sided printing		500-sheet output tray, 500 sheet output stapler stacker, two-sided printing
Media type	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		
Dimensions (W x D x H)	510 x 555 x 658 mm	657 x 657 x 1108 mm	657 x 657 x 1270 mm
Weight	42.3 kg	61.5 kg	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		
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.		

Systems

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.)		
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		
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		
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		
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); Extended 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)		
Power	**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 number:[6]** ES: 2.72 kWh/Week; NA: 2.68 kWh/Week		
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		
Acoustics	**Acoustic Power Emissions:** 6.6 B(A); **Acoustic Power Emissions (ready):** 4.6 B(A); **Acoustic Pressure Emissions Bystander (active, printing):** 52 dB(A); **Acoustic Pressure Emissions Bystander (ready):** 32 dB(A)		
Environmental ranges	**Operating Temperature Range:** 15 to 30ºC; **Recommended Operating Temperature:** 17.5 to 25ºC; **Non-operating Humidity Range:** 10 to 90% RH; **Operating Humidity Range:** 10 to 80% RH; **Recommended Operating Humidity Range:** 30 to 70% RH		
Safety approvals and requirements	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		
Supported network protocols	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, Stateful via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPs, Telnet, TFTP Config, FTP FW Download, Syslog; Security: SNMPv3, SSL Cert Management, Firewall, ACL, 802.1x		

Technical specifications

Functions	Print, copy, scan, fax
Print	
Duplex print options	Automatic (standard)
Print speed[10]	**Black (A4, normal)** Up to 56 ppm; **Black (letter, normal)** Up to 60 ppm; **Black (A5, landscape)** Up to 74 ppm; **Black (A4, duplex)** Up to 56 ppm; **Black (letter, duplex)** Up to 60 ppm **Color (A4, normal)** Up to 56 ppm; **Color (letter, normal)** Up to 60 ppm; **Black (A5, landscape)** Up to 74 ppm; **Color (A4, Duplex)** Up to 56 ppm; **Color (letter, Duplex)** Up to 60 ppm
First page out[12]	**Black (A4, ready)** As fast as 5.8 sec; **Black (A4, sleep)** As fast as 12.6 sec **Colour (A4, ready)** As fast as 5.8 sec; **Colour (A4, sleep)** As fast as 12.6 sec
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 management	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
Scan	
Scan technology	**Type** Flatbed, ADF; **Technology** Charge Coupled Device (CCD)
Scan speed[18]	**Normal (A4)** Up to 83 ppm/167 ipm (b&w), up to 83 ppm/167 ipm (color)
Scan resolution	**Enhanced** Up to 600 dpi; **Hardware** Up to 600 x 600 dpi; **Optical** Up to 600 dpi
Scan size	**ADF** 215.9 x 863.6 mm **Flatbed** 220 x 365 mm
Scan input modes	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 file format	PDF, JPG, TIF, MTIF[19]
Copy	
Copy speed[14]	**Black (A4, normal)** Up to 56 cpm; **Black (letter, normal)** Up to 60 cpm; **Color (A4, normal)** Up to 56 cpm; **Color (letter, normal)** Up to 60 cpm; **Black Duplex (A4)** Up to 56 cpm; **Black (letter, duplex)** Up to 60 cpm; **Color (A4, Duplex)** Up to 56 cpm; **Color (letter, duplex)** Up to 60 cpm
First copy out	**Black (A4)** As fast as 6.0 sec; **Colour (A4)** As fast as 6.5 sec **Black (A4, sleep)** As fast as 16.9 sec; **Colour (A4, sleep)** As fast as 16.9 sec
Copy resolution	**Black (text and graphics)** Up to 600 x 600 dpi; **Color (text and graphics)** Up to 600 x 600 dpi
Max. 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[17]	**Black (best)** Up to 300 x 300 dpi (400 x 400 dpi for received faxes only); **Black (standard)** 203 x 98 dpi; **Black and white (fine)** 203 x 196 dpi; **Black and white (superfine)** 203 x 392 dpi or 300 x 300; **Black photo grayscale** 300 x 300 dpi (400 x 400 dpi for received faxes only)
Fax resolution	Up to 300 x 300 dpi (400 x 400 dpi for received faxes only)
Fax features	**Auto fax reduction supported** Yes; **Auto-redialing** Yes; **Fax delayed sending** No; **Distinctive ring detection supported** No; **Fax forwarding supported** Yes; **Junk barrier supported** Yes; **Maximum speed dialing numbers** Up to 1000 numbers (each with 210 destinations); **PC interface supported** Yes; **Fax polling supported** Yes (poll to receive only)
Fax smart software features	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax confirmation; Holiday fax schedule
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 Fax; 1 1 Wi-Fi direct 802.11b/g/n; 1 Bluetooth low energy
Mobile printing capability	HP ePrint; Apple AirPrint™; Mopria™-certified; Wireless Direct Printing; Bluetooth Low Energy; Google Cloud Print 2.0
Network ready	Standard (built-in Gigabit Ethernet); Included Wi-Fi Direct and Bluetooth low energy
Wireless capability	Yes, Built-in Wi-Fi Direct, Bluetooth low energy (BLE); Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A
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 (standard).
HP ePrint capability	Yes
Memory	**Standard** 1.5 GB (printer); 1 GB (scanner); **Maximum** 3 GB
Processor speed	1.2 GHz
Duty cycle (monthly)	Up to 120,000 pages; **Recommended monthly page volume:** 2000 to 17,000
Paper handling	
Input	100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 2,000-sheet high capacity input tray 4, 150-sheet automatic document feeder;
Output	500-sheet output tray, 500-sheet output stapler stacker, two-sided printing
Media type	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: 60-220 g/m² (plain), 120 to 220 g/m² (glossy); Tray 2, 3: 60 to 163 g/m² (plain), 120 to 220 g/m² (glossy); Tray 4: 60-163 g/m² (plain)
Media sizes custom	Tray 1: 76 x 127 to 216 x 356 mm; Trays 2, 3: 101.6 x 148 to 216 x 356 mm; Tray 4: custom sizes not supported in this tray
Dimensions (W x D x H)	657 x 657 x 1270 mm
Weight[3]	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
Warranty features	1 Year Limited Warranty (Next Business Day On-Site)
Systems	
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.)
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
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
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); Extended 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)
Power	**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:** ES: 2.72 kWh/Week; BA: 2.68 kWh/Week
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
Acoustics	**Acoustic power emissions:** 6.8 B(A); **Acoustic power emissions (ready)** 4.6 B(A); **Acoustic pressure emissions bystander (active, printing)** 53 dB(A); **Acoustic pressure emissions bystander (ready)** 32 dB(A)
Environmental ranges	**Operating temperature range** 15 to 30ºC; **Recommended operating temperature** 17.5 to 25ºC; **Non-operating humidity range** 10 to 90% RH; **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
Safety approvals and requirements	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; EN 62311:2008 / IEC 62311:2007; 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
Supported network protocols	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

Footnotes

[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. For more information: hp.com/go/printersecurityclaims

[2] Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at hp.com/go/printsecurity.

[3] 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.

[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

[5] HP 657X High Yield Original LaserJet Toner Cartridges not included; please purchase separately.

[6] Scan speed measured from ADF at default 300 dpi (black-and-white, grayscale, and color). Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

[7] Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep.

[8] HP Web Jetadmin is available for download at no additional charge at hp.com/go/webjetadmin.

[9] Energy claim based on TEC data reported on energystar.gov as of January 2017. Data normalized to determine energy efficiency of in-class laser printers with published speed of 50 to 60 ppm. Subject to device settings. Actual results may vary.

Product Walkaround disclaimers

[1] Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase.

[2] An administrator must enable the easy-access USB port before use.

[3] Standard and optional paper-handling accessories vary by model. See Series at a glance table for details.

[4] The pull-out keyboard and HP EveryPage are only available on the HP Color LaserJet Enterprise Flow MFP M681z model only.

[5] Fax capability is optional on the HP Color LaserJet Enterprise MFP M681dh model; it is included on all other models.

[6] Measured using ISO/IEC 24734; excludes first set of test documents. For more information, see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

[7] All models come standard with the 100-sheet multipurpose tray 1 and 550-sheet tray 2. In addition, the M681dh can add up to two additional 550-sheet paper feeders; or, it can add one of the other accessories (550-sheet paper feeder with stand and cabinet, 3x550-sheet paper feeder and stand, or 1x550-sheet/2,000-sheet HCI feeder and stand).

[8] Wi-Fi Direct printing is embedded in the HP Color LaserJet Enterprise Flow MFP M682z model. All other models can add wireless direct by purchasing the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see hp.com/go/mobileprinting. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®.

[9] Touch-to-print capability is optional for all models (except the Flow MFP M682z) with the purchase of the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device must support Near Field Communication (NFC)-enabled printing. For more information, see hp.com/go/businessmobileprinting.

[10] All models can add wireless networking with the purchase of the optional HP Jetdirect 2900nw Print Server. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections.

Technical specification disclaimers

[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, 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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