HP Color LaserJet Enterprise MFP M681 series

The pinnacle of performance and security.

This HP Colour 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]

Quality laser printing

Low energy

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.
- Centralise control of your printing environment with HP Web Jetadmin – and help build business efficiency.[2]
- 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 (M681dh and M681f).[3]
- This MFP uses exceptionally low amounts of energy thanks to its innovative design and toner technology.[4]
- Paper handling options include a wheeled stand and 550-sheet input feeder for paper sizes 10.16 x 15.24 cm (4 x 6") to legal.

More. Pages, Performance, and Protection.[5]
- 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 colour cartridge vs predecessor.[5]
- 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.[6]

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 greyscale-optimised.
- Load up to 150 pages into the automatic document feeder for fast, unattended scanning.

Product walkaround

HP Color LaserJet Enterprise Flow MFP M681z shown

1. Hardware Integration Pocket
2. Easy-access USB port
3. 1,000-sheet 3-bin stapler/stacker with offset job printing (Flow z model 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
8. 150-sheet ADF with single-pass, two-sided scanning and HP EveryPage
9. 20.3 cm icon-based colour touchscreen
10. Pull-out keyboard
11. 100-sheet multipurpose tray 1
12. Lower-right door (access to print path)
13. Front door access to toner cartridges
14. Fax port
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
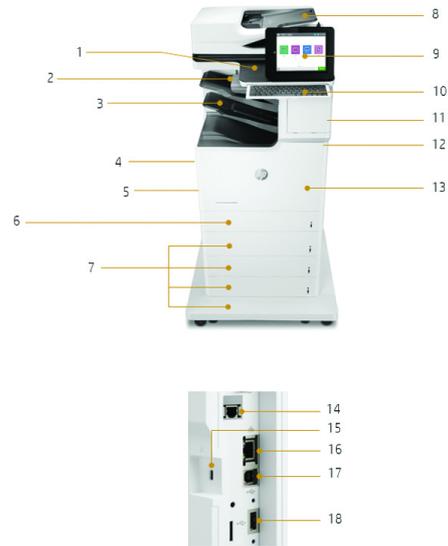
Add up to 2 additional 550-sheet paper feeders; or the 550-sheet paper feeder with stand and cabinet; or the 3x550-sheet paper feeder and stand; or the 1x550/2000-sheet HCI feeder and stand.

Series at a glance

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
Print speeds (A4)	Up to 47 ppm		
Fax capabilities	Optional	Yes	
100-sheet tray 1, 550-sheet tray 2	Yes		
550-sheet paper feeder	Optional (up to two)	Not available	
550-sheet paper feeder with stand and cabinet	Optional	Yes	Not available
3x550-sheet paper feeder and stand	Optional	Not available	Yes
1x550-sheet/2,000-sheet HCI feeder and stand	Optional	Not available	
3-bin stapler/stacker with offset job printing	Not available		Yes
Advanced workflow features including pull-out keyboard	Not available		Yes
Direct mobile printing	Optional wireless direct/NFC		
Wireless networking	Optional		

Accessories, Supplies and Support

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)
	P1B92A HP LaserJet 220V Maintenance Kit (Up to 150,000 pagesUp to 150,000 pages)
	P1B93A HP LaserJet Image Transfer Belt Kit (Up to 150,000 pagesUp to 150,000 pages)
	P1B94A HP LaserJet Toner Collection Unit (Up to 100,000 pagesUp to 100,000 pages)
Accessories	**J8J95A** HP 300 ADF Roller Replacement Kit
Service and Support	**U9NP3E** HP 3 year Next Business Day Hardware Support with Defective Media Retention for Colour LaserJet Enterprise MFP M68x **U9NP4E** HP 4 year Next Business Day Hardware Support with Defective Media Retention for Colour LaserJet Enterprise MFP M68x **U9NP5E** HP 5 year Next Business Day Hardware Support with Defective Media Retention for Colour LaserJet Enterprise MFP M68x **U9NX1PE** HP 1 year Post Warranty Next Business Day Hardware Support with Defective Media Retention for Colour LaserJet Enterprise MFP M68x **U9NX2PE** HP 2 year Post Warranty Next Business Day Hardware Support with Defective Media Retention for Colour LaserJet Enterprise MFP M68x

Technical specifications

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	
Control panel	20.3 cm (8.0 in) Colour Graphics Display (CGD) with touchscreen; Rotating (adjustable angle) display; Illuminated Home button (for quick return to the Home menu)		20.3 cm (8.0 in) Colour Graphics Display (CGD) with touchscreen; Rotating (adjustable angle) display; Illuminated Home button (for quick return to the Home menu); Pull-out keyboard
Print			
Print technology	Laser		
Print speed[1]	**Black (A4, normal)** Up to 47 ppm; **Colour (A4, normal)**: Up to 47 ppm; **Black (A4, duplex)**: Up to 47 ppm; **Colour (A4, duplex)**: Up to 47 ppm;		
First page out[2]	**Black (A4, ready)**: As fast as 6.5 sec; **Colour (A4, ready)**: As fast as 6.5 sec; **Black (A4, sleep)**: As fast as 9 sec; **Colour (A4, sleep)**: As fast as 9 sec;		**Black (A4, ready)**: As fast as 6.5 sec; **Colour (A4, ready)**: As fast as 6.5 sec; **Black (A4, sleep)**: As fast as 13.3 sec; **Colour (A4, sleep)**: As fast as 13.3 sec;
Print resolution	**Black (best)**: Up to 1200 x 1200 dpi; **Colour (best)**: Up to 1200 x 1200 dpi; **Technology**: HP ImageRet 3600; 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); Pantone© Calibrated;		
Monthly duty cycle	Up to 100,000 pages A4; **Recommended monthly page volume**: 2,000 to 14,000		
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		
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation; Native PDF printing (v 1.7); URF (AirPrint)		
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		
Print area	**Print margins** Top: 4.3 mm, Bottom: 4.3 mm, Left: 4.3 mm, Right: 4.3 mm; Maximum print area: 207.4 x 347.1 mm		
Duplex printing	Automatic (standard)		
Copy			
Copy speed[3]	**Black (A4)**: Up to 47 cpm; **Colour (A4)**: Up to 47 cpm		
Copier specifications	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); **Maximum number of copies**: Up to 9,999 copies; **Copy resolution**: Up to 600 x 600 dpi;		
Scan			
Scan speed[4]	**Normal (A4)**: Up to 69 ppm (black and white), up to 69 ppm (colour); **Duplex (A4)**: Up to 111 ipm (black and white), up to 111 ipm (colour)		**Normal (A4)**: Up to 83 ppm (black and white), up to 83 ppm (colour); **Duplex (A4)**: Up to 167 ipm (black and white), up to 167 ipm (colour)
Scan file format[5]	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)
Scanner specifications	Scanner type: Flatbed, ADF; Scan technology: Charge Coupled Device (CCD); Scan input modes: Front panel applications: Copy; E-mail; Save to Network Folder; Save to USB; Save to Device Memory; Save to SharePoint; Open Extensibility Platform (OXP) applications; HP Scan or user application via TWAIN; Twain version: Version 2.1; Duplex ADF scanning: Yes; Scan size maximum (flatbed, ADF): 216 x 356 mm; Optical scan resolution: Up to 600 dpi	Scanner type: Flatbed, ADF; Scan technology: Charge Coupled Device (CCD); 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; Twain version: Version 2.1; Duplex ADF scanning: Yes; Scan size maximum (flatbed, ADF): 216 x 356 mm; Optical scan resolution: Up to 600 dpi	

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
Scanner advanced features	Optimise text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect colour; Edge Erase; Job notification; Blank page suppression; HP Quick Sets		Optimise text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect colour; 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
Recommended monthly scan volume	14,250 to 23,750		26,750 to 44,500
Scannable area	**Minimum media size (flatbed)**: No Minimum Size **Maximum media size (flatbed)**: 216 x 356 mm; **Minimum media size (ADF)**: 68 x 147 mm **Maximum media size (ADF)**: 215.9 x 863.6 mm		
Bit depth/ Grey scale levels	24-bit / 256		
Digital sending	Standard: 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 Colour Sense; Auto Crop To Content; Compact PDF ; Optional: 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	Standard: 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 Colour Sense; Auto Crop To Content; Compact PDF ; Optional: 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	Standard: 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 Colour Sense; Auto Crop To Content; Compact PDF; Auto Tonescale; Auto Orientation; Multi-Pick Detect; Auto Straighten; Auto Crop To Page; OCR ; Optional: 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
Fax			
Fax	Optional,	Yes, 33.6 kbps	
Fax specifications		**Fax memory**: Up to 500 pages; **Fax resolution**: Standard: 203 x 98 dpi; Fine: 203 x 196 dpi; Superfine: 203 x 392 dpi or 300 x 300; **Quick dialing**: Up to 1,000 numbers (each with 210 destinations); **Telecom compliance**: ES 203 021-1 v2.1. 1; ES 203 021-2 v2.1.2; ES 203 021-3 v2.1.2; Other Telecom approvals as required by individual countries	
Fax smart software features		Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule	
Processor speed	1.2 GHz		
Connectivity			
Standard	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	
Optional	HP Jetdirect 2900nw Print Server J8031A; HP Jetdirect 3000w NFC/Wireless Accessory J8030A		
Wireless	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		
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		
Network capabilities	Standard (built-in Gigabit Ethernet)		
Hard disk	Standard, minimum 320 GB HP High-Performance Secure Hard Disk (AES 256 hardware encryption or greater)		
Memory	**Standard**: 1.5 GB (printer); 512 MB (scanner); **Maximum**: 2.5 GB		**Standard**: 1.5 GB (printer); 1 GB (scanner); **Maximum**: 3 GB
Media handling			
Number of paper trays	**Standard**: 2 ; **Maximum**: 5	**Standard**: 3 ; **Maximum**: 3	**Standard**: 5 ; **Maximum**: 5
Media types	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), colour transparency, labels, letterhead, envelope, preprinted, prepunched, coloured, rough, opaque film, user-defined		
Media size	**Custom (metric)**: 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 1 x 500/2,000-sheet high-capacity tray: custom sizes not supported in this tray ; **Supported (metric)**: 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; **ADF**: Oficio; Executive; Statement; 16K; A4; RA4; A5; A6; B5; B6 (JIS); Postcard (JIS); DPostcard (JIS); 68 x 147 mm to 215.9 x 863.6 mm	**Custom (metric)**: Tray 1: 76 x 127 to 216 x 356 mm; Trays 2, 3: 101.6 x 148 to 216 x 356 mm ; **Supported (metric)**: 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: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard ; **ADF**: Oficio; Executive; Statement; 16K; A4; RA4; A5; A6; B5; B6 (JIS); Postcard (JIS); DPostcard (JIS); 68 x 147 mm to 215.9 x 863.6 mm	**Custom (metric)**: Tray 1: 76 x 127 to 216 x 356 mm; Trays 2, 3, 4, 5: 101.6 x 148 to 216 x 356 mm ; **Supported (metric)**: 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 ; **ADF**: Oficio; Executive; Statement; 16K; A4; RA4; A5; A6; B5; B6 (JIS); Postcard (JIS); DPostcard (JIS); 68 x 147 mm to 215.9 x 863.6 mm
Media handling	**Standard input**: 100-sheet multi-purpose tray, 550-sheet input tray 2, 150-sheet automatic document feeder **Standard output**: 500-sheet output tray, two-sided printing **Optional input**: Optional 1 x 550-sheet paper feeder, optional 1 x 550 paper feeder and stand with cabinet, optional 3 x 550-sheet paper feeder and stand, optional high-capacity paper feeder and stand with 1 x 550 sheet feeder and 1 x 2,000-sheet feeder **ADF**: Standard, 150 sheets	**Standard input**: 100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 150-sheet automatic document feeder **Standard output**: 500-sheet output tray, two-sided printing **ADF**: Standard, 150 sheets	**Standard input**: 100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 4, 5, 150-sheet automatic document feeder **Standard output**: 500-sheet output tray, 500 sheet output stapler stacker, two-sided printing **ADF**: Standard, 150 sheets
Media weight	Tray 1: 60-220 g/m² (plain), 120 to 220 g/m² (glossy); Tray 2: 60 to 163 g/m² (plain), 120 to 220 g/m² (glossy); **ADF**: 45 to 199 g/m²	Tray 1: 60-220 g/m² (plain), 120 to 220 g/m² (glossy); Trays 2, 3: 60 to 163 g/m² (plain), 120 to 220 g/m² (glossy); **ADF**: 45 to 199 g/m²	Tray 1: 60-220 g/m² (plain), 120 to 220 g/m² (glossy); Trays 2, 3, 4, 5: 60 to 163 g/m² (plain), 120 to 220 g/m² (glossy); **ADF**: 45 to 199 g/m²

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
Input capacity	**Tray 1**: Paper: 100 sheets of 75 g/m² media; Envelopes: 10 **Tray 2**: Plain media (75 g/m²) sheets: 550 (55 mm stack height); Glossy media sheets (120 g/m²): 250 (30 mm stack height) **Maximum**: Up to 3,200 sheets **ADF**: Standard, 150 sheets	**Tray 1**: Paper: 100 sheets of 75 g/m² media; Envelopes: 10 **Tray 2**: Plain media (75 g/m²) sheets: 550 (55 mm stack height); Glossy media sheets (120 g/m²): 250 (30 mm stack height) **Tray 3**: Plain media (75 g/m²) sheets: 550 (55 mm stack height); Glossy media sheets (120 g/m²): 250 (30 mm stack height) **Maximum**: Up to 1,200 sheets **ADF**: Standard, 150 sheets	**Tray 1**: Paper: 100 sheets of 75 g/m² media; Envelopes: 10 **Tray 2**: Plain media (75 g/m²) sheets: 550 (55 mm stack height); Glossy media sheets (120 g/m²): 250 (30 mm stack height) **Tray 3**: Plain media (75 g/m²) sheets: 550 (55 mm stack height); Glossy media sheets (120 g/m²): 250 (30 mm stack height) **Maximum**: Up to 2,300 sheets **ADF**: Standard, 150 sheets
Output capacity	**Standard**: Up to 500 sheets Envelopes: Up to 85 envelopes Transparencies: Up to 200 sheets **Maximum**: Up to 500 sheets		**Standard**: Up to 1,000 sheets Envelopes: Up to 85 envelopes Transparencies: Up to 200 sheets **Maximum**: Up to 1,000 sheets
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 10.11 El Capitan, OS X 10.10 Yosemite, 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 32-bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)		
Compatible network operating systems	Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2, and 3), Citrix on Windows Server 2003/2003 R2, Citrix on Windows Server 2008/2008 R2/2008 R2 SP1, Citrix on Windows Server 2012/2012 R2, Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3) for Windows Server 2008 Terminal Services 32/64-bit, Citrix XenApp 6.0/6.5 (for Windows Server 2008 R2 Terminal Services, 32/64-bit), Citrix XenApp 6.0/6.5/7.5 (for Windows Server 2008 R2 SP1 Terminal Services, 32/64-bit), Citrix XenApp 7.5 (for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit), Citrix XenDesktop 5.6 (for Windows Server 2008 R2 Terminal Services, 32/64-bit), Citrix XenDesktop 5.6/7.0/7.5 (for Windows Server 2008 R2 SP1 Terminal Services, 32/64-bit), Citrix XenDesktop 7.0/7.5 (for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit), Novell NetWare 6.5/SP8 Novell Clients http://www.novell.com/iprint, Novell iPrint Appliance v1.0, Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, Novell Servers http://www.novell.com/iprint), Windows Server 2003/2003 R2 32/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2), Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 32/64-bit (SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services), Windows Server 2016/ 64-bit Standard/ Essential/Datacenter (+ Cluster & Terminal Services)		
Minimum system requirements	**Windows**: 2 GB available hard disk space; OS hardware requirements see http://www.microsoft.com; **Mac**: 1.3 GB available hard drive space; Internet; OS hardware requirements see http://www.Apple.com for more info		
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 http://www.123.HP.com or OS App Source for printer software), Online user manuals		
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		
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		
Dimensions and weight			
Printer dimensions (W x D x H)	**Minimum** 510 x 555 x 658 mm; **Maximum**: 963 x 770 x 910 mm;	**Minimum** 657 x 657 x 1108 mm; **Maximum**: 992 x 948 x 1360 mm;	**Minimum** 657 x 657 x 1270 mm; **Maximum**: 992 x 967 x 1529 mm;
Package dimensions (W x D x H)	714 x 677 x 816 mm	856 x 760 x 1519 mm	856 x 760 x 1684 mm
Printer weight[7]	42.3 kg	61.5 kg	76.3 kg
Package weight	49.5 kg	81.1 kg	95.7 kg
Operating environment	**Temperature**: 15 to 30ºC; **Humidity**: 30 to 70% RH		
Storage conditions	**Temperature**: -20 to 40ºC; **Humidity**: 10 to 90% RH		
Acoustics	**Acoustic power emissions**: 6.6 B(A); **Acoustic pressure emissions**: 52 dB(A)		
Power[8]	**Requirements**: Input voltage: 220 V to 240V nominal, (+/-10%) 50 - 60Hz nominal (+/- 3Hz), 6 A; **Consumption**: 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)**: Energy Star: 2.72 kWh/Week; Blue Angel: 2.68 kWh/Week; **Power supply type**: Built in 220 V Power Supply;		
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology; Instant-on Copy		
Certifications[9]	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; Other EMC approvals as required by individual countries ENERGY STAR®; EPEAT® Silver; CECP **Blue Angel compliant**[10] Yes; Blue Angel RAL-UZ 205		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; Other EMC approvals as required by individual countries ENERGY STAR® qualified; CECP; EPEAT® Silver; EPEAT® Gold (Options AAZ; 201) **Blue Angel compliant**[10] Yes; Blue Angel RAL-UZ 205
What's in the box[11]	HP Colour LaserJet Enterprise MFP M681dh Printer; HP Black Original LaserJet Toner Cartridge (12,500 pages), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (10,500 pages each - toner cartridges installed); CD with software drivers and documentation; Documentation (hardware install guide); Power cord	HP Colour LaserJet Enterprise MFP M681f Printer; HP Black Original LaserJet Toner Cartridge (12,500 pages), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (10,500 pages each - toner cartridges installed); CD with software drivers and documentation; Documentation (hardware install guide); Power cord	HP Colour LaserJet Enterprise Flow MFP M681z Printer; HP Black Original LaserJet Toner Cartridge (12,500 pages), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (10,500 pages each - toner cartridges installed); CD with software drivers and documentation; Documentation (hardware install guide); Power cord
Warranty	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.		

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

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

[4] Energy claim based on TEC data reported on energystar.gov as of January 2017. Data normalised 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.

[5] 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.

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

[7] 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.

[8] Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

[10] An FCC Class A emissions compliant device meets the less stringent (higher) levels of emissions allowed by the FCC for a product operation in a commercial environment. An FCC class A device cannot be marketed for use in a residential environment and an FCC class A device should not be purchased for use in a residential environment due to the increased risk of interference to radio communications.

Technical specifications disclaimers

[1] 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.

[2] 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.

[3] 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.

[4] Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

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

[6] 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).

[7] With print cartridges.

[8] 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.

[9] 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.

[10] Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled.

[11] Cartridges included; Yields 10,500 colour (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.

www.blauer-engel.de/uz205

http://www.hp.com/uk