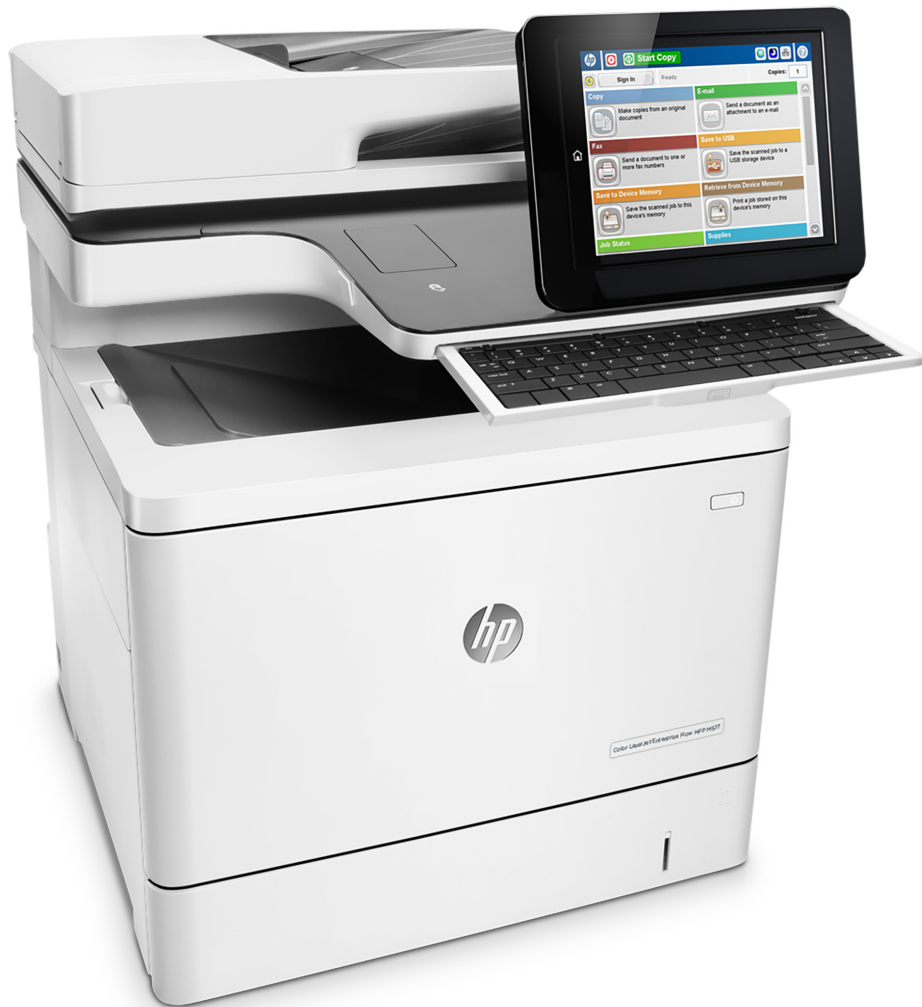


Product guide

# Unparalleled performance. Deepest security.

HP Color LaserJet Enterprise MFP M577 series



September 2019



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# Performance and security that you can count on

This efficient MFP helps conserve energy, increases productivity, and enables employees to speed through tasks. Only HP printers offer built-in security features that are always on guard.<sup>1</sup> Get vibrant, professional-quality pages from this color MFP with Original HP Toner cartridges with JetIntelligence.

## Who can benefit?

Workgroups of up to 15 people can share this high-performance MFP. Fine-tune office productivity with a user-friendly color touchscreen, input capacity of up to 2,300 sheets,<sup>2</sup> and single-pass, two-sided scanning. Choose the Flow M577c or Flow M577z model for additional workflow features like a pull-out keyboard for smooth data entry and advanced scanning and routing options. Easily upgrade this enterprise device as your organization's needs change—and use simple, central management tools to save on IT time and budget.



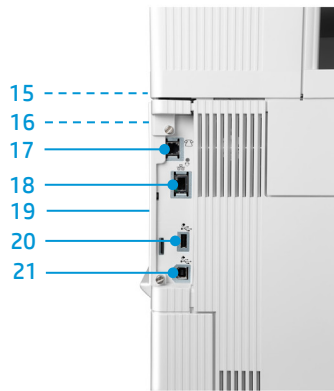
# Product walk around

HP Color LaserJet Enterprise Flow MFP M577z shown

- 1 9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display
- 2 Convenience stapler
- 3 Pull-out keyboard for easy, accurate data entry
- 4 Convenient front on/off button
- 5 Right door (access to print path)
- 6 100-sheet multipurpose tray
- 7 550-sheet input tray 2
- 8 100-sheet ADF with single-pass, two-sided scanning and HP EveryPage
- 9 Hardware Integration Pocket<sup>3</sup> (for connecting accessory and third-party devices)
- 10 Easy-access USB port to save and print files directly<sup>4</sup>
- 11 Built-in wireless direct printing<sup>5</sup>/NFC touch-to-print<sup>6</sup>
- 12 250-sheet output bin
- 13 Front door (access to HP JetIntelligence Toner cartridges)
- 14 Built-in automatic two-sided printing
- 15 1.75 GB standard memory (upgradeable to 2.5 GB)<sup>7</sup> and a 1.2 GHz processor
- 16 HP High-Performance Secure Hard Disk
- 17 Fax port
- 18 HP Jetdirect Gigabit Ethernet print server
- 19 Slot for optional cable-type security lock
- 20 Hi-Speed USB 2.0 port (for connecting third-party devices)
- 21 Hi-Speed USB 2.0 printing port



Front view



I/O panel closeup

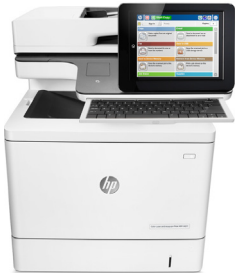
## Series at a glance



Model	MFP M577dn	MFP M577f	Flow MFP M577c	Flow MFP M577z
<b>Product number</b>	B5L46A	B5L47A	B5L54A	B5L48A
<b>100-sheet tray 1, 550-sheet tray 2</b>	✓	✓	✓	✓
<b>550-sheet input trays 3, 4, and 5</b>	Optional	Optional	Optional	Optional
<b>Printer cabinet</b>	Optional	Optional	Optional	Optional
<b>HP High-Performance Secure Hard Disk</b>	✓	✓	✓	✓
<b>100-page ADF with single-pass, two-sided scanning</b>	✓	✓	✓ (Plus HP EveryPage)	✓ (Plus HP EveryPage)
<b>Fax capability</b>	Optional	✓	✓	✓
<b>Convenience stapler</b>	Not available	✓	✓	✓
<b>Advanced workflow features including pull-out keyboard</b>	Not available	Not available	✓	✓
<b>Wireless direct printing<sup>5</sup>/NFC<sup>6</sup></b>	Optional	Optional	Optional	✓

# Product comparison

The following table compares the new HP Color LaserJet Enterprise Flow MFP M577z with the HP LaserJet Enterprise 500 color flow MFP M575c.



## HP Color LaserJet Enterprise Flow MFP M577z

## HP LaserJet Enterprise 500 color flow MFP M575c

## Benefits

Up to 40 pages per minute (ppm) print speed, letter (38 ppm, A4)—both simplex and duplex printing <sup>8</sup>	Simplex: Up to 31 ppm, letter (30 ppm, A4) Duplex: Up to 29 images per minute (ipm), letter (27 ipm, A4) <sup>8</sup>	Save time with 29% faster simplex output, letter, and 38% faster duplex output, letter
First page out (FPO) from sleep as fast as 8.7 seconds and as fast as 5.7 seconds from ready, letter <sup>9</sup>	FPO as fast as 22 seconds from sleep and as fast as 10.5 seconds from ready <sup>9</sup>	Get energy efficiency without sacrificing productivity, with up to 61% faster FPO from sleep and a 46% faster FPO from ready
Black-and-white scan speeds: up to 48 ppm, letter (45 ppm, A4), simplex; up to 68 ipm, letter (64 ipm, A4), duplex <sup>10</sup>	Black-and-white scan speeds: up to 44 ppm, letter (42 ppm, A4), simplex; up to 52 ipm, letter (50 ipm, A4), duplex <sup>10</sup>	Increased workflow productivity with up to 31% faster two-sided scanning
HP Sure Start, run-time intrusion detection, whitelisting security features <sup>1</sup>	Not available	Multi-level, built-in security features guard your device against complex threats
Typical electricity consumption (TEC): 1.581 kWh/Week (ENERGY STAR <sup>®</sup> measurement)	TEC: 4.60 kWh/Week	Save resources with 66% lower TEC <sup>11</sup> and leading energy efficiency, <sup>12</sup> thanks to innovative HP technology
Input capacity (standard/maximum): Up to 650 sheets/2,300 sheets; <sup>2</sup> optional trays support a wide variety of media sizes	Up to 350 sheets/850 sheets <sup>2</sup>	171% higher input capacity minimizes interruptions; with 550-sheet trays, you can add a whole ream before the paper runs completely out; put different size paper in each tray
Built-in wireless direct printing <sup>5</sup> /NFC touch-to-print <sup>6</sup>	Not available	Improved efficiency and convenient mobile printing
High-yield black/color cartridges (~12,500/9,500 pages) <sup>13,14</sup>	High-yield black cartridges (~11,000 pages) <sup>13</sup>	High-capacity toner cartridges allow users to print more pages with less intervention
Original HP Toner cartridges with JetIntelligence	Original HP toner cartridges	Get professional-quality pages, peak printing performance, and the added protection of anti-fraud technology
Quick, accurate online help <sup>15</sup>	Not available	Easy access to up-to-date troubleshooting guides from mobile devices or your PC

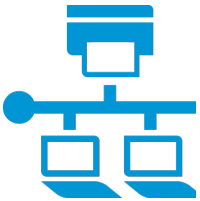
# Key benefits at a glance

This efficient MFP helps conserve energy, increases productivity, and enables employees to speed through tasks.



## High-speed performance meets energy efficiency

- Don't wait for documents. Print your first page in as few as 8.6 seconds from energy-efficient sleep mode—faster than the competition.<sup>9,16</sup>
- Speedy through jobs. Print two-sides as quickly as one—up to 40/38 ipm (letter/A4)<sup>8</sup>—and scan both sides of the page at once.
- This MFP uses exceptionally low amounts of energy—thanks to its innovative design and toner technology.<sup>11</sup>
- Choose a maximum capacity of up to 2,300 sheets.<sup>2</sup>
- Equip employees to breeze through tasks on the 9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display.
- Save time with the advanced workflow features on the Flow MFP M577c and M577z models.



## Unparalleled fleet security and management

- Embedded features detect security threats to protect your MFP from boot up to shut down.<sup>1</sup>
- Protect sensitive data on the MFP and in transit, using embedded and optional HP JetAdvantage Security Solutions.<sup>17</sup>
- Centralize control of your printing environment with HP Web Jetadmin.<sup>18</sup>



## Powerful printing. Energy smart.<sup>19</sup>

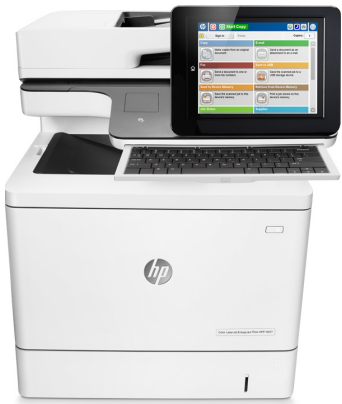
- Get the most prints for your money and spend less time replacing toner—using Original HP High Yield Color Toner cartridges with JetIntelligence.<sup>14</sup>
- Count on professional quality at high speeds with HP ColorSphere 3 toner.
- Help ensure you're getting the authentic HP quality you paid for with innovative anti-fraud technology.
- Get right to printing without delays or mess—quickly replace your cartridge using auto seal removal and easy-open packaging.



## Stay connected with secure mobile printing options

- Enable 128-bit encrypted wireless direct printing from mobile devices<sup>5</sup> or print with just a touch of your NFC-enabled mobile device<sup>6</sup>—without accessing the network. Both features are standard on the MFP M577z model and optional on all other models.
- Easily print from a variety of smartphones and tablets—generally no setup or apps required.<sup>20</sup>
- Easily access, print, and share resources with Ethernet and optional wireless networking.<sup>21</sup>

# High-speed performance meets energy efficiency



## Get more done, faster, with advanced workflow features

In addition to the standard workflow features, the Flow MFP M577c and M577z models include the following enhancements:

- Faster scan speeds; two-sided scanning projects are done in a flash
- HP EveryPage Technology, which helps capture every page and detect potential errors or missed pages on the spot—even when the weight, size, or condition of pages varies
- An extended life ADF, with up to 13,900-page recommended monthly scan volume
- A large pull-out keyboard for faster, more accurate data entry
- Built-in optical character recognition (OCR), for editable and searchable scans
- Auto-orientation, auto-page-crop, and auto-tone (for contrast, brightness, and background removal of each page)
- Send to Microsoft® SharePoint®

This efficient MFP is designed to conserve energy without sacrificing productivity—so employees can speed through tasks and move business forward.



## Take waiting out of your workday

Thanks to Original HP Toner cartridges with JetIntelligence, you can print your first page in as little as 8.6 seconds from energy-efficient sleep mode and 5.5 seconds from ready mode.<sup>9</sup> Print two-sided documents as quickly as one-sided documents—up to 40 ipm, letter (38 ipm, A4).<sup>8</sup> Scan two-sided documents as fast as 45 ipm with the M577dn and f models, and as fast as 68 ipm with the Flow M577c and z models.<sup>10</sup>



## Designed to conserve

Keep productivity up and energy use down. This ENERGY STAR certified MFP leads its class in energy efficiency.<sup>12</sup> Help cut costs with HP Auto-On/Auto-Off Technology<sup>22</sup> and HP Instant-on Technology<sup>23</sup>—intelligence that readies your MFP right when you need it and turns it off when you don't. Support for thin media allows users to print on papers as light as 16 lb (60 g/m<sup>2</sup>). Help save your business time and money with lightweight HP EcoEFFICIENT paper.



## Loaded for productivity

Let high-volume print jobs handle themselves. With a 2,300-sheet maximum capacity and 550-sheet trays that fit a whole ream of paper, you can spend less time loading and reloading paper.<sup>2</sup> With the optional printer cabinet,<sup>24</sup> users can position the printer right where it's needed while adding storage for extra paper and supplies.



## Top quality—on any media

Ensure the consistent, high-quality results you expect. Media-sensing technology automatically adjusts print settings across a wide variety of paper types, including plain, glossy, and thick media.

HP EasyColor detects document content and automatically adjusts to optimize quality and speed. Designed together with HP papers and JetIntelligence Toner cartridges, HP ImageREt 3600 produces exceptional output for your printed documents.



## Simplify tasks with a touch

The 9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display tilts up for easy viewing by all users. It offers:

- Image preview, which lets you add, delete, reorder, and zoom in on pages.
- Menus that allow you to set system defaults, customize job settings, and configure and launch HP Quick Sets.
- Relevant Online Help gives clear instructions, illustrations, and animations.
- Easy-to-read status messages.
- Localized virtual keyboards.

For more details, see Appendix C, “Control panel features,” on page 21.



## Pull print jobs from your pocket

Walk up and print or scan right from a memory device. The easy-access USB lets you quickly complete your print job from a flash drive. A variety of file types are supported.



### Feed documents without the hassle

The 100-sheet automatic document feeder allows you to scan two-sided documents in a single pass for quick job processing, without flipping pages by hand. With the ADF, you can automatically:

- Detect and remove blank pages from scanned documents, reducing file size.
- Deskew sheets that are not inserted quite straight.
- Determine the best output format and exposure for the data content.
- Classify input original as either color or non-color.
- Eliminate paper punch holes, staples, and black overscan lines with edge erase.



### Expand scanning possibilities

The 8.5 x 14 in (216 x 356 mm) flatbed scanner lets you easily copy and scan non-standard and bound material. Color scanning comes standard on all HP MFPs.



### Scan and send right to your destination

Easily integrate paper documents into the digital workflow—send scanned documents directly to a variety of destinations like email recipients, network folders, or LAN fax addresses, with no need for middleware. Built-in LDAP addressing simplifies email distribution.

The Send-to-Email Default Setup Wizard and the Save-to-Folder Quick Set Wizard help you quickly and easily configure your HP MFP's digital sending features.



### Make copies and send faxes with ease

The MFP may be used as a standalone, walk-up copier. Place your originals on the scanner glass or use the automatic document feeder and adjust all copy settings at the control panel.

Quickly and easily send and receive faxes with the HP LaserJet MFP Analog Fax 600 from the control panel icon.<sup>25</sup>

## Optional HP JetAdvantage Workflow Solutions

### HP Capture and Route

#### Capture, manage, and store all your information

HP Capture and Route is a scalable solution that makes it easy for your team to control and track scanned content, and distribute documents with the touch of a button to back-office applications, fax lines, online destinations such as Microsoft SharePoint and Autonomy iManage, as well as cloud-based repositories.

To learn more, visit [hp.com/go/captureandroute](http://hp.com/go/captureandroute).

### HP Digital Sending Software

#### Streamline document handling with a server-based solution

Maximize return on your IT investment with a capture and send software that leverages existing IT infrastructure and uses a common administrative utility and end-user interface, so you can use it across multiple HP devices and device types.

To learn more, visit [hp.com/go/dss](http://hp.com/go/dss).

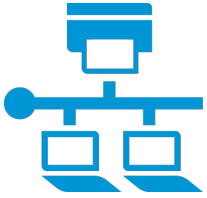
### HP JetAdvantage Partner Solutions

#### Simple capture programs to sophisticated workflow automation

HP JetAdvantage Partner solutions offer simple capture programs to sophisticated workflow automation. Current partners providing workflow solutions are Ephesoft Transact, Fenestrae Udocx, Genius Bytes GeniusMFP, Kofax AutoStore, and YSoft SafeQ.



# Unparalleled fleet security and management



## Count on HP to help you proactively protect your devices, data and documents:

- Built-in security features and settings help safeguard your device from boot up to shut down<sup>1</sup>
- Pull print options like HP Access Control help you protect confidential documents
- Authentication options such as PIN, PIC, or HP proximity cards control access to your devices
- HP JetAdvantage Security Manager<sup>26</sup> helps make fleet security management simple and automatic
- HP Printing Security Advisory Services can help you develop a cohesive printing security strategy and implement solutions to protect your business



## Count on built-in security for greater protection

Gain peace of mind with multi-level, built-in security features that guard your device against complex security threats.<sup>1</sup> HP Sure Start maintains BIOS integrity, whitelisting protects device firmware, and run-time intrusion detection guards against malware.<sup>1</sup> Plus, HP Enterprise printing devices come with more than 200 embedded settings to help safeguard your sensitive business information. For more information, see Appendix A, “Security features” on page 17.



## Opt for tighter security

Further safeguard information in transit over the network and stored on the device—keys, passwords, certificates and more—using the encrypted HP High-Performance Secure Hard Disk and optional HP Trusted Platform Module.<sup>27</sup>



## Streamline fleet management and security

Centralize control of your print environment with HP Web Jetadmin,<sup>18</sup> an HP JetAdvantage Management Solution. Easily discover and configure devices, conduct remote diagnostics, upgrade firmware, and monitor and manage supplies.

The HP Universal Print Driver (UPD) is the single driver that gives users instant access to a range of HP print devices without downloading separate drivers.<sup>28</sup>

Trust your MFP is secure from power-up to power-down. Get strong protection for devices, data, and documents with embedded and optional HP JetAdvantage Security Solutions and features.<sup>1</sup> Centrally manage your entire printer fleet with innovative HP JetAdvantage Management Solutions.<sup>17</sup>

HP JetAdvantage Security Manager offers an effective, policy-based approach to help secure HP printing and imaging devices.<sup>26</sup>

For more information, see Appendix A, “Security features” on page 17 and Appendix B, “Fleet management features” on page 20.



## Expand the capabilities of your MFP

Do more with your investment. Easily develop and deploy HP and third-party solutions with the HP Open Extensibility Platform (OXP). The OXP creates a unified environment for software solutions that run on your HP Enterprise devices—providing sound investment protection, consistency for end users, and easier management.

HP’s cost-effective solution for hardware upgrades—the Hardware Integration Pocket (HIP)<sup>3</sup>—allows you to integrate optional secure mobile printing or authentication solutions, such as card and badge readers.



## Work with the future in mind

HP FutureSmart Firmware lets you upgrade this MFP on your schedule, whenever solutions advance. Add new features—such as workflow and security enhancements—without having to purchase new hardware. A consistent user interface and menu design across all HP FutureSmart devices—including the HP Color LaserJet Enterprise MFP M577 series—makes the user experience intuitive and familiar. To learn more, visit [hp.com/go/futuresmart](http://hp.com/go/futuresmart).

# Powerful printing. Energy smart.

Bring out the best in your MFP. Get exceptional print quality and help protect your device, using Original HP Toner cartridges with JetIntelligence. Help ensure you're getting the authentic HP quality you paid for with innovative anti-fraud technology.



Original HP Toner cartridges with JetIntelligence

### Exceptional print quality

Get consistent quality and performance you can count on. Original HP Toner cartridges and drums are specially designed and precisely engineered for HP printers and MFPs—so you can rely on fast, consistent results.

### HP quality—print after print

HP ColorSphere 3 toner is engineered for a low melt point for consistent, professional-quality results at high speeds. It is precisely tuned to match the powerful performance of the M577 MFP series.

### Protect your investment

Don't be fooled by cartridges that attempt to mimic Original HP. Innovative anti-fraud technology helps identify whether a cartridge is Original HP, used, or counterfeit—to help ensure you're getting the authentic HP quality you paid for.

### High yield, low intervention

Don't waste important business time replacing toner cartridges. Optional high-yield cartridges—both black and color—enable uninterrupted printing for longer periods of time.<sup>14</sup>

### Ready to work, right away

Speed through print jobs right out of the box—without even opening the cartridge door. The M577 series is shipped with preinstalled, specially designed Original HP Toner cartridges with JetIntelligence.

### Start printing quickly and easily

Get right to printing without delays or mess—quickly replace your cartridges using auto seal removal and easy-open packaging.

## Pages

Original HP Toner cartridges with JetIntelligence help reduce costs with high-yield options, page maximizer technology, and print gauge technology.



Page maximizer technology

- Small robust components
- More room in the hopper for toner



Print gauge technology

- Intelligently predicts cartridge life
- Helps with inventory management—replace supplies right on time

## Performance

HP ColorSphere 3 toner is protected by a durable, hard shell—which reduces toner particle wear and maintains toner shape and size from the first printed page to the last.



ColorSphere 3 toner

- Spherical shape = more efficient use of toner
- Low melt core = faster print speed and HP legendary quality



Anti-fraud technology

- Helps you identify the difference between Original HP and used or counterfeit cartridges
- Supports policies you set for your printing fleet



Auto seal removal

- Skip a step—the toner seal is automatically removed for you
- Get right to printing without delays

## Protection

Get the authentic HP quality you paid for and avoid potential problems. Help manage business costs and maintain quality standards across your fleet.

# Stay connected with secure mobile printing options



Enable secure wireless printing in the office—with or without network access<sup>5</sup>—and keep users connected with Ethernet and optional wireless networking.<sup>21</sup> Print with just a touch from mobile devices.<sup>6</sup>

### Extend your printing reach

Built-in 10/100/1000 Ethernet and optional 802.11b/g/n wireless networking let you share printing resources on a network.<sup>21</sup> For more information, please see “Ordering information” on page 16.



### Print wirelessly from mobile devices—no network needed

Enable wireless direct printing from anywhere in the office from smartphones, tablets, and notebook PCs.<sup>5</sup> Or, walk up and print with just a touch of your NFC-enabled smartphone or tablet to this MFP.<sup>6</sup> (On Android™ devices, NFC touch-to-print is enabled via the HP ePrint app.) The HP Color LaserJet Enterprise Flow MFP M577z comes with these features built-in, but the Flow MFP M577c, and MFP M577dn and MFP M577f models can add them via an optional accessory.

There’s no need to search through a long list of devices—automatically discover the nearest printer without accessing your corporate network. Security and user access settings—like 128-bit encryption and a configurable passphrase—can be easily set up with HP Web Jetadmin<sup>18</sup> or the HP Embedded Web Server.



### Print from a wide range of mobile devices

Easily print documents, emails, PDFs, and more from iPhones® and iPads® as well as smartphones and tablets running iOS, Android version 4.4 or later, Windows® 8/10, or Google Chrome™ operating systems—generally no setup or apps required.<sup>20</sup> Simply open and preview the content you want to print, select your device, and hit Print. For mobile devices without built-in print support, users will first need to download the HP ePrint app or HP ePrint software.

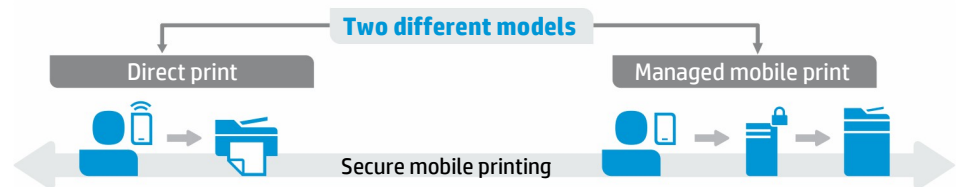


### Managed mobile print solutions

If you’re looking to deploy mobile printing across a printer fleet, HP offers server-based solutions that provide secure pull-printing, as well as advanced management and reporting capabilities. HP also provides options to integrate with third-party mobile device management solutions.

## HP JetAdvantage Mobile Print Solutions

Choose the right mobile printing options for your business.



### Wireless direct or NFC touch-to-print

Easy to install, setup and use with high quality and reliability

### HP Access Control

Secure, server-based solution that preserves admin controls even in BYOD environments

Learn more at [hp.com/go/businessmobileprinting](http://hp.com/go/businessmobileprinting)

# Technical specifications

	HP Color LaserJet Enterprise MFP M577dn	HP Color LaserJet Enterprise MFP M577f	HP Color LaserJet Enterprise Flow MFP M577c	HP Color LaserJet Enterprise Flow MFP M577z
<b>Product number</b>	B5L46A	B5L47A	B5L54A	B5L48A
<b>Control panel/data entry</b>	9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display with adjustable angle display; illuminated Home button (for quick return to the Home menu)			Plus: Pull-out keyboard
<b>Print speed (black and color)<sup>8</sup></b>	Simplex: Up to 40 ppm, letter (38 ppm, A4) Duplex: Up to 40 ppm, letter (38 ppm, A4)			
<b>First page out (letter/A4)<sup>9</sup></b>	Black: As fast as 5.5/5.6 seconds from ready; as fast as 8.6/8.6 seconds from sleep Color: As fast as 6.8/6.9 seconds from ready; as fast as 8.8/8.8 seconds from sleep		Black: As fast as 5.7/5.9 seconds from ready; as fast as 8.7/9.1 seconds from sleep Color: As fast as 6.8/6.9 seconds from ready; as fast as 8.9/9.0 seconds from sleep	
<b>Print resolution</b>	Up to 600 x 600 dpi, up to 1,200 x 1,200 dpi (Fine lines); HP ImageREt 3600, PANTONE® calibrated			
<b>Scanning resolution</b>	Up to 600 dpi			
<b>ADF scan speed<sup>10</sup></b>				
Single-sided (letter/A4)	Up to 45/43 ppm, black, and up to 40/38 ppm, color		Up to 48/45 ppm, black and color	
Two-sided (letter/A4)	Up to 45/43 ipm, black, and up to 40/38 ipm, color		Up to 68/64 ipm, black, and up to 60/58 ipm, color	
<b>Features</b>				
Printing	Print preview, two-sided printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB, HP Easy Color			
Scanning	Flatbed scanner, up to 8.5 x 14 in (216 x 356 mm); 100-sheet ADF with two-sided, single-pass scanning; Advanced features: Optimize text/picture, image adjustments, job build, output quality setting, selectable scan resolution 75 to 600 dpi, auto detect color, edge erase, job notification, blank page suppression, HP Quick Sets			Plus: HP EveryPage, auto orientation, embedded optical character recognition (OCR), auto crop to page, auto-tone
Digital sending	Standard: Scan to E-mail, Save-to-Network Folder, Save-to-USB drive, 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 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			Plus: Send to Microsoft SharePoint
Copying	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, Copy resolution: Up to 600 x 600 dpi (flatbed), 600 x 450 dpi (ADF)			
	Plus: Convenience stapler			
Faxing <sup>25</sup>	Fax speed: 33.6 kbps; fax forwarding, receive fax polling, broadcasting to up to 120 locations, speed dial up to 1000 numbers, each with 210 destinations, auto-fax reduction, auto-redialing, stored faxes, fax archiving, scale-to-fit, fax address book, LAN/Internet fax, fax number confirmation, holiday fax schedule Fax resolution: standard 204 x 98 dpi; fine 204 x 196 dpi; superfine 300 x 300 dpi			
<b>Processor</b>	1.2 GHz			
<b>Memory</b>	1.25 GB, upgradeable to 2 GB <sup>7</sup> (printer); 500 MB (scanner)			
<b>Storage</b>	Embedded HP High-Performance Secure Hard Disk, minimum 320 GB; AES 256 hardware encryption or greater; Secure erase capabilities (Secure File Erase-Temporary Job Files, Secure Erase-Job Data, Secure ATA Erase-Disk); U.S. Government: FIPS 140-2 validated hard disk, minimum 500 GB			

	HP Color LaserJet Enterprise MFP M577dn	HP Color LaserJet Enterprise MFP M577f	HP Color LaserJet Enterprise Flow MFP M577c	HP Color LaserJet Enterprise Flow MFP M577z
<b>Durability ratings</b>				
RMPV (recommended monthly page volume) <sup>29</sup>	2,000 pages to as high as 7,500 pages			
RMSV (recommended monthly scan volume) <sup>30</sup>	4,150 pages to as high as 6,900 pages		8,350 pages to as high as 13,900 pages	
Duty cycle <sup>31</sup>	Up to 80,000 pages			
<b>Media specifications</b>				
Input capacity	Standard: up to 650 sheets; Maximum: up to 2,300 sheets <sup>2</sup> Tray 1: up to 100 sheets Tray 2: up to 550 sheets Optional trays 3, 4, and 5: up to 550 sheets each			
Output capacity	Up to 250 sheets			
Two-sided printing	Automatic			
Media sizes	Tray 1: Letter, legal, oficio, executive, statement, 4 x 6 in, 3 x 5 in, 5 x 7 in, 5 x 8 in, postcard (JIS), double postcard (JIS), 8.5 x 13 in, envelope (commercial No. 9, No. 10, Monarch); A4, RA4, A5, B5 (JIS), B6 (JIS), 10 x 15 cm, A6, 16K, envelopes (B5, C5 ISO, C6, DL ISO); Custom media sizes: 3 x 5 to 8.5 x 14 in (76 x 127 to 216 x 356 mm) Tray 2: Letter, executive, statement, 4 x 6 in, 5 x 7 in, 5 x 8 in, double postcard (JIS); A4, A5, B5 (JIS), B6 (JIS), 10 x 15 cm, A6, 16K; Custom media sizes: 4.0 x 5.85 to 8.5 x 11.69 in (102 x 148 to 216 x 297 mm) Optional trays 3, 4, and 5: Letter, legal, oficio, executive, 8.5 x 13 in; A4, RA4, A5, B5 (JIS), 16K; Custom media sizes: 4.0 x 5.85 to 8.5 x 14 in (102 x 148 to 216 x 356 mm) Duplex: Letter, legal, oficio, executive; A4, A5, B5 (JIS) ADF: Letter, legal, oficio, executive, statement, Postcard (JIS), DPostcard (JIS), 4 x 6 in, 5 x 7 in, 5 x 8 in; A4, RA4, A5, A6, B5, B6 (JIS), 16K			
Media weights	All trays: Plain, 16 to 58 lb (60 to 220 g/m <sup>2</sup> ); Glossy, 28 to 58 lb (105 to 220 g/m <sup>2</sup> ) Duplex: Plain, 16 to 43 lb (60 to 163 g/m <sup>2</sup> ); Glossy, 28 to 58 lb (105 to 220 g/m <sup>2</sup> ) ADF: 12 to 53 lb bond (45 to 199 g/m <sup>2</sup> )			
Media types	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), color transparency, labels, letterhead, envelope, pre-printed, pre-punched, colored, rough, opaque film, user-defined			
<b>Print languages</b>	HP PCL 6, HP PCL 5c, HP postscript level 3 emulation, native PDF printing (v 1.7)			
<b>Fonts</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 World Type); 2 Internal Windows Vista <sup>®</sup> 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://hp.com/go/laserjetfonts">hp.com/go/laserjetfonts</a>			
<b>Connectivity</b>	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit/Fast Ethernet 10/100/1000Base-TX network; Hardware Integration Pocket			
	Plus: Fax			
<b>Mobile printing</b>	Standard: HP ePrint, <sup>32</sup> AirPrint <sup>®</sup> , <sup>33</sup> Mopria-certified, <sup>34</sup> Google Cloud Print™ 2.0 Optional: Wireless direct printing, <sup>5</sup> NFC touch-to-print <sup>6</sup>			Wireless direct printing, <sup>5</sup> NFC touch-to-print, <sup>6</sup> HP ePrint, <sup>32</sup> AirPrint, <sup>33</sup> Mopria-certified, <sup>34</sup> Google Cloud Print 2.0
<b>Network capabilities</b>	Standard: Via HP Jetdirect Ethernet embedded print server supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec Optional: 802.11b/g/n wireless networking enabled with purchase of accessory <sup>21</sup>			

	<b>HP Color LaserJet Enterprise MFP M577dn</b>	<b>HP Color LaserJet Enterprise MFP M577f</b>	<b>HP Color LaserJet Enterprise Flow MFP M577c</b>	<b>HP Color LaserJet Enterprise Flow MFP M577z</b>
<b>Network protocols</b>	<p>IPv4/IPv6: Apple® Bonjour® Compatible (Mac OS 10.2.4 or higher), SNMPv1/v2c/v3, HTTP, HTTPS, FTP, TFTP, Port 9100, LPD, WS Discovery, IPP, Secure-IPP, IPsec/Firewall</p> <p>IPv6: DHCPv6, MLDv1, ICMPv6</p> <p>IPv4: Auto-IP, SLP, Telnet, IGMPv2, BOOTP/DHCP, WINS, IP Direct Mode, WS Print</p> <p>Other: NetWare NDS, Bindery, NDPS, ePrint, Google Cloud Print 2.0</p>			
<b>Security</b>	<p>Identity management: Kerberos authentication, LDAP authentication, 1000 user PIN codes, optional HP and third-party advanced authentication solutions (e.g., badge readers)</p> <p>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</p> <p>Data: Storage Encryption, Encrypted PDF and Email (uses FIPS 140-2 validated cryptographic libraries), Secure Erase, SSL/TLS (HTTPS), Encrypted Credentials</p> <p>Device: Security lock slot, USB port disablement, hardware integration pocket for security solutions, optional Trusted Platform Module<sup>27</sup></p> <p>Security management: Compatible with optional HP JetAdvantage Security Manager<sup>26</sup></p>			
<b>Compatible operating systems<sup>35</sup></b>	<p>Windows OS compatible with In-Box Driver: Windows XP SP3 all 32-bit editions (XP Home, XP Pro, etc.), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc.), Windows 7 all 32- &amp; 64-bit editions, Windows 8/8.1 all 32- &amp; 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32- &amp; 64-bit editions (excluding RT OS for Tablets)</p> <p>Windows OS compatible with Universal Print Driver (From <a href="http://HP.com">HP.com</a>): Windows XP SP3 32- &amp; 64-bit editions (XP Home, XP Pro, etc.), Windows Vista all 32- &amp; 64-bit editions (Home Basic, Premium, Professional, etc.), Windows 7 all 32- &amp; 64-bit editions, Windows 8/8.1 all 32- &amp; 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32- &amp; 64-bit editions (excluding RT OS for Tablets)</p> <p>Mac OS (HP Print Drivers available from <a href="http://HP.com">HP.com</a> and Apple Store): OS X 10.8 Mountain Lion, OS X 10.9 Mavericks, OS X 10.10 Yosemite</p> <p>Mobile OS (In-OS drivers): iOS, Android, Windows 8/8.1/10 RT</p> <p>Linux® OS (In-OS HPLIP): SUSE Linux (12.2, 12.3, 13.1), Fedora (17, 18, 19, 20), Linux Mint (13, 14, 15, 16, 17), Boss (3.0, 5.0), Ubuntu (10.04, 11.10, 12.04, 12.10, 13.04, 13.10, 14.04, 14.10), Debian (6.0.x, 7.x)</p> <p>Other OS: UNIX®</p>			
<b>System requirements, PC</b>	<p>Supported Operating System (see above); CD-ROM or DVD drive, or Internet connection; Dedicated USB or network connection or Wireless connection; 200 MB available hard disk space; OS compatible hardware (For OS hardware requirements see <a href="http://microsoft.com">microsoft.com</a>)</p>			
<b>System requirements, Mac</b>	<p>Mac OS (HP Print Drivers available from <a href="http://HP.com">HP.com</a> and Apple Store); Supported Operating System (see above); Internet; USB; 1 GB HD; OS compatible hardware (For OS hardware requirements see <a href="http://apple.com">apple.com</a>)</p>			
<b>Dimensions (width x depth x height)</b>	<p>Minimum (all trays closed): 18.98 x 19.84 x 22.95 in (482 x 504 x 583 mm)</p> <p>Maximum: 27.5 x 19.84 x 22.95 in (699 x 504 x 583 mm)</p>			
<b>Weight (with cartridges)</b>	84 lb (38.1 kg)	84.5 lb (38.3 kg)	85 lb (38.6 kg)	
<b>What's in the box</b>	<p>MFP, Four preinstalled HP LaserJet toner cartridges (yield ~6,000 pages black, ~5,000 pages color<sup>13</sup>), Toner collection unit, In-box documentation, Software CD, Power Cord</p> <p>Plus: Fax cable</p>			
<b>Software included</b>	<p>Windows: HP Software Installer/Uninstaller, HP PCL 6 Printer Driver, HP Device Experience (DXP), HP Send Fax, HP Update, Product Registration Assist, HP Web Services Assist (HP Connected), Online user manuals</p> <p>Mac OS: Welcome Screen (directs users to <a href="http://HP.com">HP.com</a>) or OS App Source for LaserJet Software)</p>			
<b>Downloadable software</b>	<p>From <a href="http://123.hp.com">123.hp.com</a>: HP Easy Start (Guided Software Install for Windows OS and Mac)</p> <p>From <a href="http://HP.com">HP.com</a> (Windows and Mac): Full-solution software and drivers (Same solution as "Software Included"); HP PLC 6 print driver only (No installer for "Add Printer" installs), HP PCL 6 print driver with installer, Product Documentation and Support</p> <p>From <a href="http://HP.com">HP.com</a> (Mac): Full-solution software and drivers</p> <p>For Mobile OS: See "HP Mobile Printing" at <a href="http://hp.com/us/en/ads/mobility/overview.html">hp.com/us/en/ads/mobility/overview.html</a></p> <p>From In-OS app stores: HP recommended printer drivers and software</p> <p>From <a href="http://HP.com">HP.com</a> (for printer administrators): Printer Administrator Resource Kit (Driver Configuration Utility, Driver Deployment Utility, Managed Printing Administrator), HP Universal Print Drivers (PCL 6, PCL 5 &amp; PS for Windows), HP ePrint Software (ePrint Mobile Driver for Windows), Linux/Unix Print Drivers, SAP (PCL 5 and PS Print Drivers), HP Web Jetadmin Software, HP Proxy Agent Software, HP JetAdvantage Security Manager<sup>26</sup></p>			

	<b>HP Color LaserJet Enterprise MFP M577dn</b>	<b>HP Color LaserJet Enterprise MFP M577f</b>	<b>HP Color LaserJet Enterprise Flow MFP M577c</b>	<b>HP Color LaserJet Enterprise Flow MFP M577z</b>
<b>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">hp.com/support</a> to learn about HP world-class service and support options in your region.			
<b>HP Sure Supply supported</b>	HP SureSupply alerts you when your print cartridge is running low and helps you purchase online or locally through HP or a participating retailer. Only available with Original HP supplies; Internet access required. To learn more, visit <a href="http://hp.com/go/SureSupply">hp.com/go/SureSupply</a> .			

## Environmental and power specifications

	<b>HP Color LaserJet Enterprise MFP M577dn</b>	<b>HP Color LaserJet Enterprise MFP M577f</b>	<b>HP Color LaserJet Enterprise Flow MFP M577c</b>	<b>HP Color LaserJet Enterprise Flow MFP M577z</b>
<b>Environmental ranges</b>				
Temperatures	Operating: 59 to 81° F (15 to 30° C); Storage: 32 to 95° F (0 to 35° C); Recommended: 62 to 77° F (17 to 25° C)			
Relative humidity range	Operating: 10 to 80%; Non-operating: 10 to 90%; Recommended: 30 to 70%			
<b>Acoustic power emissions<sup>36</sup></b>	Ready mode: 4.7 B(A); Active printing: 6.5 B(A); Active copying: 6.9 B(A)			
	Active scanning: 6.8 B(A)		Active scanning: 6.7 B(A)	
<b>Acoustic pressure emissions (bystander)</b>	Ready mode: 32 dB(A); Active printing: 51 dB(A)			
	Active copying: 55 dB(A); Active scanning: 53 dB(A)		Active copying: 54 dB(A); Active scanning: 52 dB(A)	
<b>Power specifications</b>	ENERGY STAR certified; Blue Angel; EPEAT® Silver registered models available <sup>37</sup>			
Power supply required <sup>38</sup>	Input voltage: 100 to 127 VAC, 60 Hz, Input voltage: 200 to 240 VAC, 50 Hz (Not dual voltage, product varies by part number with # Option code identifier)			
Power consumption	Printing: 592 watts; Ready: 47.3 watts; Sleep: 3.48 watts; Auto-Off/Auto-On/Wake on LAN: 0.49 watts; Auto-Off/Manual On: 0.08 watts			
Typical Electricity Consumption (TEC)	1.559 kWh/Week (Energy Star) 1.513 kWh/Week (Blue Angel)		1.581 kWh/Week (Energy Star) 1.513 kWh/Week (Blue Angel)	
Energy-saving features	HP Auto-On/Auto-Off Technology, <sup>22</sup> Instant-on Technology <sup>23</sup>			
<b>Environmental specifications</b>	Mercury free			
<b>Safety and regulatory compliance</b>	IEC 60950-1:2005 +A1:2009 +A2:2013 (International); EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013 (EU); EN 60825-1:2007/IEC 60825-1:2007 (Class 1 Laser Product); EN 62479: 2010/IEC 62479: 2010; Low Voltage Directive 2006/95/EC with CE Mark (Europe); GS Certificate (Germany, Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2011-12; Compliance with Laser safety standards 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser notice No. 50, Dated June 24, 2007; Other safety approvals as required by individual countries.			
<b>Electromagnetic emission standard</b>	CISPR 22:2008 (International) - Class A, EN 55022: 2010 (EU) - Class A, EN 61000-3-2: 2006 +A1: 2009 +A2: 2009, EN 61000-3-3: 2008, EN 55024: 2010, EMC Directive 2004/108/EC, FCC CFR 47 Part 15 Class A / ICES-003, Issue 5 Class A, Other EMC approvals as required by individual countries.			
<b>Telecom Compliance Certification</b>	Telecom wired: ES 203 021; R&TTE Directive 1999/5/EC with CE marking (Europe); FCC Rules and Regulations 47 CFR Part 68; Industry Canada CS03; Other Telecom approvals as required by individual countries.			Telecom Wireless: EN 301 489-1 v1.9.2 / EN 301 489-1 v2.2.1 (2012-09), EN 300 328 v1.8.1 (2006-10), FCC Title 47 CFR, Part 15 Subpart C (Section 15.247)/IC: RSS-210, IEC 62311: 2007/EN 62311: 2008, other Telecom approvals as required by individual countries.

# Ordering information

Use accessories and supplies specifically designed for the MFP to help provide efficient performance. To order the accessories and supplies listed here, go to [hp.com](http://hp.com). To contact HP by country, please visit [hp.com/go/contact](http://hp.com/go/contact).

If you don't have access to the Internet, contact your qualified HP dealer, or call HP (U.S.) at (800) 282-6672.

<b>Product</b>	HP Color LaserJet Enterprise MFP M577dn	B5L46A	
	HP Color LaserJet Enterprise MFP M577f	B5L47A	
	HP Color LaserJet Enterprise Flow MFP M577c	B5L54A	
	HP Color LaserJet Enterprise Flow MFP M577z	B5L48A	
<b>Supplies</b>	HP 508A Black Original LaserJet Toner Cartridge (~6,000 pages <sup>13</sup> )	CF360A	
	HP 508X High Yield Black Original LaserJet Toner Cartridge (~12,500 pages <sup>13</sup> )	CF360X	
	HP 508A Cyan Original LaserJet Toner Cartridge (~5,000 pages <sup>13</sup> )	CF361A	
	HP 508X High Yield Cyan Original LaserJet Toner Cartridge (~9,500 pages <sup>13</sup> )	CF361X	
	HP 508A Yellow Original LaserJet Toner Cartridge (~5,000 pages <sup>13</sup> )	CF362A	
	HP 508X High Yield Yellow Original LaserJet Toner Cartridge (~9,500 pages <sup>13</sup> )	CF362X	
	HP 508A Magenta Original LaserJet Toner Cartridge (~5,000 pages <sup>13</sup> )	CF363A	
	HP 508X High Yield Magenta Original LaserJet Toner Cartridge (~9,500 pages <sup>13</sup> )	CF363X	
	HP LaserJet 110v Fuser Kit (~150,000 pages <sup>13</sup> )	B5L35A	
	HP LaserJet 220v Fuser Kit (~150,000 pages <sup>13</sup> )	B5L36A	
	HP Color LaserJet Toner Collection Unit (~54,000 pages <sup>13</sup> )	B5L37A	
	HP 200 ADF Roller Replacement Kit (~75,000 pages <sup>13</sup> )	B5L52A	
HP Staple Cartridge Pack (2 cartridges, 1,500 staples each) <sup>39</sup>	Q7432A		
<b>Accessories</b>	HP Color LaserJet 550-sheet Media Tray	B5L34A	
	HP Color LaserJet Printer Cabinet	B5L51A	
	HP Internal USB Ports	B5L28A	
	HP 1GB DDR3 x32 144-Pin 800MHz SODIMM	E5K48A	
	HP Trusted Platform Module Accessory <sup>27</sup>	F5562A	
	HP Foreign Interface Harness	B5L31A	
	HP Jetdirect 2900nw Print Server	J8031A	
	HP Jetdirect 3000w NFC/Wireless Accessory <sup>40</sup>	J8030A	
	HP LaserJet MFP Analog Fax Accessory 600 <sup>25</sup>	B5L53A	
<b>HP Services</b>	Boost performance—it's your choice. HP Care for printers provides options to help you manage printing—from Care Pack services to customizable and advisory services. With HP Managed Print Services, we oversee everything for you.	Make sure your imaging and printing investments are protected with Care Pack, part of HP Care. Pick your package of services to keep your MFP running and your business moving. Now your office can spend less time trouble-shooting and more time getting things done. <sup>41</sup>	
		HP 3 year Next Business Day + Defective Media Retention CLJ M577 MFP Hardware Support	U8TH7E
		HP 4 year Next Business Day + Defective Media Retention CLJ M577 MFP Hardware Support	U8TH8E
		HP 5 year Next Business Day + Defective Media Retention CLJ M577 MFP Hardware Support	U8TH9E
		HP 3 year 4 hour 9x5 + Defective Media Retention CLJ M577 MFP Hardware Support	U8TJ0E
		HP Network Installation mid-range LaserJet Multifunction Printer Service	U2010E
<b>Solutions</b>	HP Web Jetadmin: <a href="http://hp.com/go/wia">hp.com/go/wia</a>		
	HP Universal Print Driver: <a href="http://hp.com/go/upd">hp.com/go/upd</a>		
	HP JetAdvantage Security Manager: <a href="http://hp.com/go/securitymanager">hp.com/go/securitymanager</a>		
	HP LaserJet fonts, barcodes, and IPDS Emulation available at <a href="http://hp.com/go/laserjetfonts">hp.com/go/laserjetfonts</a>		
	To learn more about available infrastructure, management, and workflow solutions, visit <a href="http://hp.com/go/printingsolutions">hp.com/go/printingsolutions</a>		



# Appendix A: Security features

## Resources

HP JetAdvantage Security Solutions:

- Web site: [hp.com/go/printsecurity](http://hp.com/go/printsecurity)
- Solution brief: <http://h20195.www2.hp.com/v2/GetPDF.aspx/4aa3-1295enw.pdf>
- Video: <http://hp.brightcovegallery.com/products/detail/video/4270905124001/>

HP JetAdvantage Security Manager:<sup>26</sup>

- Web site: [hp.com/go/securitymanager](http://hp.com/go/securitymanager)
- Brochure: <http://h20195.www2.hp.com/v2/GetPDF.aspx/4aa3-9275enw.pdf>
- Video: <http://hp.brightcovegallery.com/products/detail/video/4270837770001/>

## Protect your business information

The HP Color LaserJet Enterprise MFP M577 series has a multitude of options to help you secure your environment. You can count on support for a number of solutions, along with built-in and optional security features such as PIN printing and an HP High-Performance Secure Hard Disk.<sup>17</sup>

### Protect your printer

As capabilities expand and devices become more integrated into your work, device security becomes increasingly important. These features help protect the M577 series:

- **Embedded protection:** Multi-level, built-in features help protect your MFP against complex security threats from boot up to shut down.<sup>1</sup>
  - HP Sure Start helps ensure that the device BIOS boots up properly every time with unaltered HP genuine code and without corruption, using the same technology as HP Elite Notebook PCs. If an anomaly is detected, the device will reboot to a known secure state.
  - Whitelisting helps ensure that the device firmware loads properly with HP genuine code—without corruption—every time.
  - Run-time intrusion detection guards against malware, so the device continues general operation without alteration or corruption.
  - HP Connection Inspector inspects outgoing network connections to stop suspicious requests like malware.
- **Code signing:** Firmware signed by HP ensures that the firmware was produced by HP (authenticity) and that the firmware has not been altered in any way (integrity).
- **Firewall:** The built-in device network firewall allows or denies access to specific TCP/UDP ports and services.
- **Physical port disablement:** Host USB ports, network ports, and other physical ports can be disabled to prevent unauthorized use.
- **CA & Device Identity Certificates:** This MFP supports identity certificates signed by a corporate certificate authority, which provides verification of identity and authenticity. This device also supports CA certificates for validation of identity certificates. Certificates can enable secure end-to-end communications with the device when used with features like IPsec, Secure-IPP, HP ePrint, and more. Additional certificates can be stored for validating S/MIME email servers and 802.1x authentication.
- **Authentication and authorization:** Authentication can help your organization manage user access, help secure access to management utilities, and avoid unwanted device configurations. Control access to the MFP, device settings, and functions, with options like:
  - **Multiple embedded authentication methods.** Print with a positive ID. With authentication options available from the device, you can configure Windows/Kerberos authentication, LDAP authentication, and user PIN authentication that integrates with your existing infrastructure.
  - **Role-based device authentication and authorization with HP FutureSmart.** With HP FutureSmart, you have more control than ever before over device security and permission settings. IT administrators can decide who can interact with certain device capabilities—helping to make printing more secure, control access, and uphold site security policies.
  - **HP and third-party authentication solutions.** With optional solutions like HP Access Control, you can enable advanced authentication using proximity cards. The Hardware Integration Pocket on the control panel enables integration of select card readers.<sup>3</sup>
- **Physical device protection:** Both the device and the HP High-Performance Secure Hard Disk can be physically secured from theft and tampering using a lock that requires a physical key for removal (this accessory must be purchased separately).
- **Common Criteria Certification (CCC):** CCC is a security certification recognized in 26 countries worldwide. HP certifies the security functionality of its Enterprise LaserJet MFPs and printers to align with the IEEE 2600 imaging and printing security standard.

### Protect your data

Your MFP harbors sensitive information—make sure it's not at risk. HP offers security features at every stage in your work.

Help protect data at rest with the following features:

- **Storage encryption:** Defend your data. The HP High-Performance Secure Hard Disk provides full 256-bit AES hardware encryption.
- **Secure Erase:** The MFP provides built-in capabilities for securely overwriting data stored on it, allowing sensitive data to be safely removed. HP offers multiple mechanisms to erase stored data, including functionality that conforms to U.S. National Institute of Science and Technology (NIST) Special Publication 800-88.
- **Password protection:** Stored passwords are encrypted to help provide protection of this critical information.
- **Secure keys, credentials, and certificates:** For an extra level of security, the optional HP Trusted Platform Module (TPM) accessory can be added to the device to strengthen protection of encrypted credentials and data by automatically sealing device encryption keys to the TPM, and it provides secure device identity by generating and protecting certificate private keys.<sup>27</sup>

Protect data in transit with these features:

- **Network protection:** Network-transmitted data can be protected with IPsec and print jobs can also be encrypted using Internet Printing Protocol (IPP) over SSL/TLS.
- **CipherSuite Encryption Strength:** Encryption strength can be selected to prevent the use of legacy or insecure protocols for data in transit.
- **FIPS-140 Mode:** Ensures device uses available FIPS-140 validated cryptographic modules for TLS encryption, SNMPv3 signing and encryption, and signed certificates.
- **Secure Encrypted Print with HP UPD 5.3.1 or later:** For added security, choose end-to-end Secure Encrypted Print. HP UPD<sup>28</sup> provides true symmetric AES256 print job encryption and decryption from the client to the page based on a user-defined password using FIPS 140 validated cryptographic libraries from Microsoft.
- **Secure Capture and Send:** Scanned PDFs and emails can be encrypted using built-in FIPS 140 validated cryptographic libraries from Microsoft. HP also offers a rich portfolio of HP JetAdvantage Workflow Solutions that provide advanced capture and route capabilities with enterprise level security. See “Optional HP JetAdvantage Workflow Solutions” on page 8 for more information.
- **Management safeguards:** Device management data that travels over the network between the device and HP Web Jetadmin<sup>18</sup> and other management tools can also be protected using SNMPv3. HTTPS (HTTP over SSL/TLS) can be enforced so all connections to the device Embedded Web Server administration interface are securely encrypted.
- **Secure Mobile Print:** HP offers multiple options for secure mobile printing. For more information, see “Stay connected with secure mobile printing options” on page 11.

### Safeguard your physical documents

HP offers several optional solutions to help keep documents from falling into the wrong hands and help prevent fraud, such as:

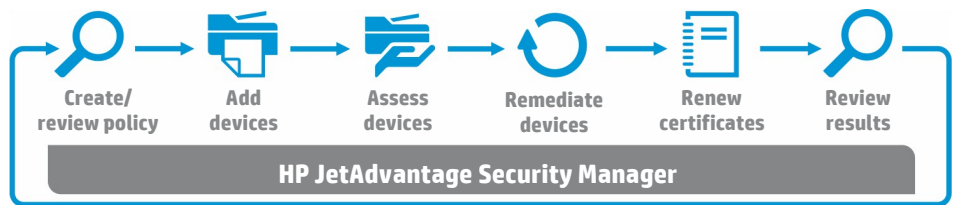
- **Pull printing:** Have documents held and released only to the person who printed them. Pull printing solutions help protect sensitive data by requiring authentication at the device, and give users the flexibility of pulling the documents from any device that is enabled with the solution.
  - **HP Access Control Pull Print:** This optional robust server-based solution offers multiple forms of authentication including badge release, as well as enterprise level security, management, and scalability. To learn more, visit [hp.com/go/hpac](http://hp.com/go/hpac).
- **Embedded anti-fraud features:** This is a valuable tool in sensitive documents like prescriptions, birth certificates, or transcripts. Anti-fraud features are embedded before they are routed to the MFP and printed on plain paper by using the optional HP and TROY Secure Document Printing solution.

## Easily manage security across the fleet

### HP JetAdvantage Security Manager (formerly HP Imaging and Printing Security Center)

Apply efficient, fleet-wide security policies to protect all your HP print devices with optional HP JetAdvantage Security Manager.<sup>26</sup>

- Automate many tedious tasks so you can free up time for your IT staff and protect the data and documents that matter most to your business.
- Streamline the process to securely deploy and monitor devices by applying a single security policy across the fleet.
- Easily create a print security policy for your environment by leveraging the HP Security Manager Base Policy template.
- Secure new HP devices as soon as they are added to your network with HP Instant-on Security. The software automatically configures settings to comply with your corporate security policy.
- Improve the security of your infrastructure and device communications by deploying unique identity certificates across your fleet and monitoring to ensure they remain valid with HP Security Manager's efficient fleet management of certificates. The administrative overhead to install unique identity certificates across your fleet of HP devices is now less than manually installing on a single device.
- Actively maintain and verify compliance with your defined security policies by using HP Security Manager automated monitoring and risk-based reporting.



To learn more about HP JetAdvantage Security Manager or to obtain a free trial, please visit [hp.com/go/securitymanager](https://hp.com/go/securitymanager).

### HP ArcSight Printer Integration

HP ArcSight provides real-time monitoring of the security posture of HP imaging and printing devices with the industry leading Security Information and Event Management (SIEM) tool.

- HP FutureSmart imaging and printing device security events are logged and easily collected.
- Events are analyzed, correlated, and risks are highlighted in the ArcSight dashboard and pre-built reports.
- Devices can be easily monitored by IT security as part of the broader IT ecosystem and can enable them to take corrective actions.

## HP security best practices

Since 2005, HP has published security best practice checklists for networked environments common to enterprises and small to medium businesses. HP recommends that customers incorporate recommended security configurations into their environments.

For more information on HP security solutions and checklists, please visit [hp.com/go/secureprinting](https://hp.com/go/secureprinting).

## Appendix B: Fleet management features

### Resources

HP Web Jetadmin:

- Web site: [hp.com/go/wia](http://hp.com/go/wia)
- Solution brief: <http://h20195.www2.hp.com/v2/GetPDF.aspx/4aa5-2718enw.pdf>
- Video: <http://hp.brightcovegallery.com/solutions/detail/video/4271055504001/>

HP Universal Print Driver:

- Web site: [hp.com/go/upd](http://hp.com/go/upd)
- Solution brief: <http://h20195.www2.hp.com/v2/GetPDF.aspx/4aa2-4781enw.pdf>



### Simple one-to-one device management

The MFP can also be managed using the HP Embedded Web Server. Use a web browser to monitor status, configure network parameters, or access device features.

### Control color access

Use HP Web Jetadmin<sup>18</sup> and the HP Universal Print Driver<sup>28</sup> to assign color access by user, time of day, or application, or disallow color output completely until it's needed for special projects. People who truly need to leverage the power of color—such as your sales team and marketing department—can, while others automatically default to black-and-white output.<sup>42</sup>

## Efficiently manage from a central location

The HP Color LaserJet Enterprise MFP M577 series is supported by HP Web Jetadmin,<sup>18</sup> an HP JetAdvantage Management Solution. This single solution allows you to efficiently manage a wide variety of networked and PC-connected devices, including printers, multifunction products, and scanners. Remotely install, configure, troubleshoot, safeguard, and manage your devices—ultimately increasing business productivity by helping you save time, control costs, protect your assets, and provide a better return on your investment. Easily integrate new HP LaserJet Pro and Enterprise devices without having to upgrade HP Web Jetadmin. A universal plug-in lets you support most features of new devices and apply corporate policies in one step—helping to save time and simplify device management.<sup>18</sup>

HP Web Jetadmin enables you to:

- Gain a clear picture of how many and what kinds of devices you have.
- Get visibility into your supplies usage, so you can make smarter purchasing decisions, reduce spending, and even track and allocate printing costs to individual departments or users.
- Simplify, and, in many cases, automate routine tasks. For example, you can apply fleet-wide policies to automatically configure new devices with the right printing and security settings when they're added to your network.
- Give your help desk staff the tools they need—such as automatic alerts—to resolve problems quickly, and often proactively, before a call is even received.
- Verify that your devices are up-to-date with the latest firmware and are properly configured (especially important for organizations that need to meet regulatory requirements).
- Use robust tracking and reporting tools to help you make better decisions about how your devices are deployed across your organization, so you can make the most of your IT investments.
- Take advantage of additional options, like the HP Database Connectivity Module which works together with Web Jetadmin to help you establish and help achieve environmental goals.
- Get the ultimate in investment protection with HP Web Jetadmin Premium Support. This expanded service option gives your staff access to HP's dedicated software support engineers, who provide advice, usage recommendations, problem diagnosis, and more.

HP Web Jetadmin can benefit IT-managed print environments of all sizes, from large enterprises managing thousands of devices to small businesses with just a handful. For more information—or to download this free software tool—visit [hp.com/go/wia](http://hp.com/go/wia).

## Make it easy for all to print with one common driver

The HP Universal Print Driver enables both mobile Microsoft device users and traditional desktop users to access the full features of nearly every HP device in your managed printing environment without the need for assistance.<sup>28</sup>

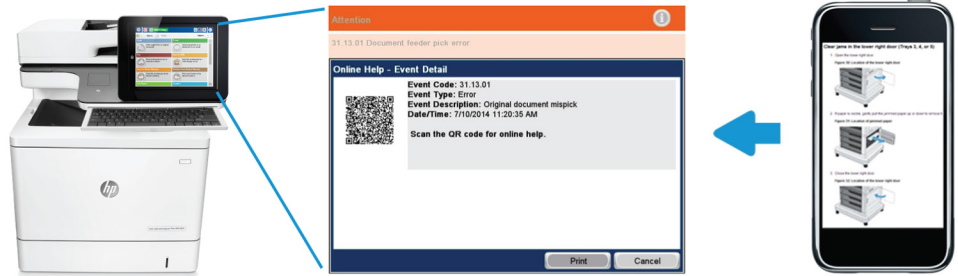
Eliminate the clutter on your computer by replacing multiple print drivers with one versatile solution. Empower IT by dramatically reducing the number of drivers they have to manage—and by giving them the tools they need to improve efficiency. With the HP UPD, your IT team can easily adjust device settings to help reduce printing costs, improve security, and help meet environmental goals. For example, it's simple to push two-sided printing or quicker sleep times across the fleet. Plus, the valuable tools in the HP UPD Printer Administrator's Resource Kit help you save time and money by streamlining IT tasks, implementing printing policies, and monitoring usage across the enterprise. You can also use the HP UPD in tandem with HP Web Jetadmin to create fleet-wide managed printer lists, reports, and more.<sup>18</sup>

You can download this valuable fleet driver solution and the tools in the Printer Administrator's Resource Kit for free. For more information about how the HP Universal Print Driver can help you protect your imaging and printing investment, simplify management, and boost productivity, visit [hp.com/go/upd](http://hp.com/go/upd).

# Appendix C: Control panel features

## Troubleshoot with ease

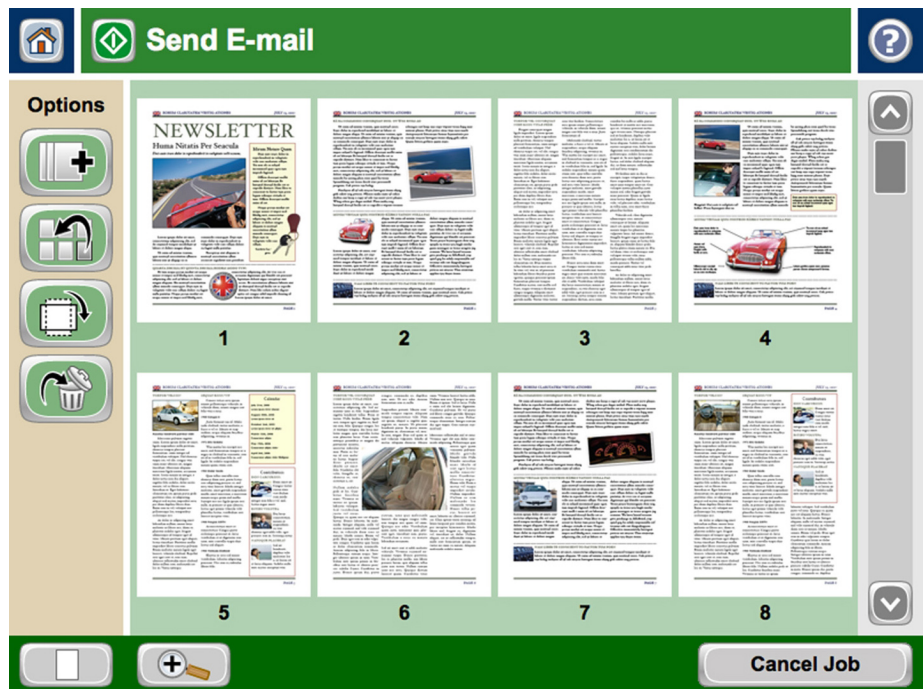
The HP Color LaserJet Enterprise MFP M577 series can help save your IT department valuable time when it comes to troubleshooting problems. The new Remote Control Panel allows users to operate the user interface remotely, so IT can troubleshoot problems without running to the MFP.<sup>43</sup> Users can also quickly troubleshoot technical issues with HP’s innovative, cloud-based Online Help services that are relevant and up to date. Easily solve problems from your PC or mobile device. A Quick Response (QR) code on the adjustable touchscreen links to quick, accurate Online Help using smart phones and tablets.<sup>15</sup> You can also find these links in the HP Embedded Web Server event log.



## Edit jobs right at the MFP

The control panel on the HP Color LaserJet Enterprise MFP M577 series features image preview, which lets you minimize steps and reduce errors. Right from the device’s 9.0-inch (22.8 cm) functional touchscreen with 8.0-inch (20.3 cm) Color Graphics Display, you can view and edit your scan job before you send it. You can easily get your scans to look just the way you want them. Instantly preview and modify scans before sending them into the workflow, eliminating the need to walk back and forth from a computer.

Scan multiple pages using the ADF and view them as thumbnail images, or zoom and pan for a detailed inspection. Before finalizing a document, you can reorder, rotate, delete, add, or zoom in on pages. You can apply changes to a single page, or multiple pages at once. Batch separation allows users to create separate PDF or PDF/A files from scanned documents. The Flow MFP M577c and M577z models can also create PDF OCR and PDF/A OCR files.<sup>43</sup>



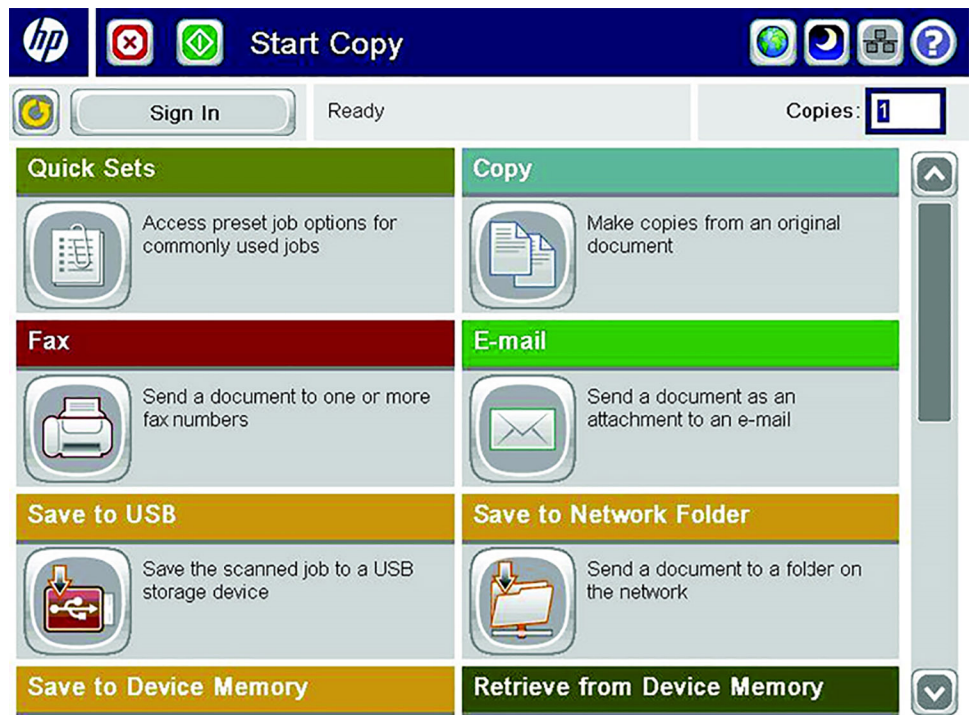
## Use HP Quick Sets to launch automated workflows

The MFP's digital sending capability allows users to route documents to a variety of destinations like email recipients, network folders, fax, FTP, or a USB device. With the Flow MFP M577c and M577z models, you can also send scans to Microsoft SharePoint.

HP Quick Sets let you launch document workflows and get it right every time—at the touch of a button. HP Quick Sets help by automating all of the steps of a complicated workflow, all on a large, full-color touchscreen. Users can find what they need right away.

In addition to scan destinations, you can preset other scan settings. These can include output file types such as PDF, JPEG, TIFF, MTIFF, XPS, and PDF/A formats. You can also specify security settings, such as encrypted PDFs to be delivered through encrypted and signed emails. Quick Set buttons can be easily created, labeled, and placed on the control panel home screen, so that you can quickly find the functions you need.

Quick Sets help IT by enabling them to promote or block access to certain device features. Calls to the helpdesk can be reduced when users have everything they need on the home screen and are restricted from accessing settings they shouldn't tamper with.



## Notes

<sup>1</sup> Based on HP review of 2018 published security features of competitive in-class printers. Only HP offers a combination of security features for integrity checking down to the BIOS with self-healing capabilities. For a list of compatible products, visit [hp.com/go/printersthatprotect](http://hp.com/go/printersthatprotect). For more information, see [hp.com/go/printersecurityclaims](http://hp.com/go/printersecurityclaims).

<sup>2</sup> Purchase of optional paper trays required to reach maximum input capacity.

<sup>3</sup> Solutions deployed through the Hardware Integration Pocket may require additional purchase.

<sup>4</sup> An administrator must enable the easy-access USB port before use.

<sup>5</sup> Wireless direct printing is standard on the HP Color LaserJet Enterprise MFP M577z only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP Color LaserJet Enterprise MFP M577dn/f/c. Mobile device needs to be connected directly to the Wi-Fi network of a wireless direct-capable MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Wireless performance is dependent on physical environment and distance from the access point in the MFP or printer. For details, see [hp.com/go/businessmobileprinting](http://hp.com/go/businessmobileprinting).

<sup>6</sup> Touch-to-print capability is standard on the HP Color LaserJet Enterprise MFP M577z only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP Color LaserJet Enterprise MFP M577dn/f/c. Mobile device must support Near Field Communication (NFC)-enabled printing. For more information, see [hp.com/go/businessmobileprinting](http://hp.com/go/businessmobileprinting).

<sup>7</sup> 1.75 GB standard memory includes 1.25 GB printer memory and 500 MB scanner memory. Max memory is with 1 GB DIMM installed. The maximum the Firmware can use is 2.5 GB (printer and scanner) so 250 MB is unused in this configuration.

<sup>8</sup> Measured using ISO/IEC 24734, excludes first set of test documents. For more information see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). Exact speed varies depending on the system configuration, software application, driver, and document complexity.

<sup>9</sup> Measured using ISO/IEC 17629. For more information, see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). Exact speed varies depending on system configuration, software applications, driver, and document complexity.

<sup>10</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

<sup>11</sup> Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in [energystar.gov](http://energystar.gov) versus the top three leading competitors as of 8/2015. Actual results may vary. For details see [hp.com/go/Ljclaims](http://hp.com/go/Ljclaims).

<sup>12</sup> Based on HP testing versus the top three leading competitors as of 8/2015. Actual results may vary. For details see [hp.com/go/Ljclaims](http://hp.com/go/Ljclaims).

<sup>13</sup> Toner cartridge yields established using ISO/IEC test standards. Actual yields of toner cartridges/maintenance kits and costs vary considerably depending on images printed, number of color pages printed, and other factors.

<sup>14</sup> HP 508X High Yield Black/Cyan/Magenta/Yellow Original LaserJet Toner cartridges are not included in printer purchase; purchase separately.

<sup>15</sup> Online Help must be enabled on the printer or MFP. Mobile device must have an Internet connection to access online services.

<sup>16</sup> Based on HP internal testing of top three leading competitors' first page out from sleep mode and duplex print and copy speed completed 8/2015. Subject to device settings. Actual results may vary. For details, see [hp.com/go/Ljclaims](http://hp.com/go/Ljclaims).

<sup>17</sup> Some solutions require download or additional purchase. Learn more at [hp.com/go/printingsolutions](http://hp.com/go/printingsolutions).

<sup>18</sup> HP Web Jetadmin is available for download at no additional charge at [hp.com/go/wia](http://hp.com/go/wia).

<sup>19</sup> Based on the reduced energy use of HP LaserJet printers and cartridges with JetIntelligence introduced since 2015 compared to previous toner versions without JetIntelligence, using ENERGY STAR® methodology.

<sup>20</sup> Wireless operations are compatible with 2.4 GHz operations only. App or software and HP ePrint account registration may also be required. Some features require purchase of an optional accessory. Learn more at [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting).

<sup>21</sup> Wireless networking requires purchase of the 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.

<sup>22</sup> HP Auto-On/Auto-Off Technology capabilities are subject to printer and settings.

<sup>23</sup> Compared with products that use traditional fusing.

<sup>24</sup> The printer cabinet requires an additional purchase.

<sup>25</sup> Fax capabilities are optional for the HP Color LaserJet Enterprise MFP M577dn, with purchase of the HP LaserJet MFP Analog Fax Accessory.

<sup>26</sup> HP JetAdvantage Security Manager must be purchased separately. To learn more, please visit [hp.com/go/securitymanager](http://hp.com/go/securitymanager).

<sup>27</sup> Use of the optional HP Trusted Platform Module accessory may require a firmware upgrade.

<sup>28</sup> The HP Universal Print Driver is available for download at no additional charge at [hp.com/go/upd](http://hp.com/go/upd).

<sup>29</sup> 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.

<sup>30</sup> HP recommends that the number of scanned pages per month be within the stated range for optimum device performance.

<sup>31</sup> Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Color LaserJet devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups.

<sup>32</sup> Printer requires ePrint account registration. App or software may be required. Wireless operations are compatible with 2.4 GHz operations only. Learn more at [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting).

<sup>33</sup> Supports the following devices running iOS 4.2 or later: iPad, iPad 2, iPhone (3GS or later), iPod touch (3rd generation or later). Works with HP's AirPrint-enabled printers and requires the printer be connected to the same network as your iOS device. Wireless performance is dependent on physical environment and distance from the access point.

<sup>34</sup> Mopria-certified HP printer and mobile device must be connected to the same wireless network or have a direct wireless connection. Performance is dependent on physical environment and distance from the wireless access point. Wireless operations are compatible with 2.4 GHz routers only.

<sup>35</sup> Not all "Compatible Operating Systems" are supported with INBOX software; Full solution software available only for Windows 7 and newer; Legacy Windows Operation Systems (XP, Vista, and equivalent servers) get print and scan drivers only; Windows RT OS for Tablets (32- & 64-bit) uses a simplified HP print driver built into the RT OS; UNIX model scripts are available on [HP.com](http://HP.com) (Model scripts are printer drivers for UNIX operating systems); Linux systems use in-OS HPLIP software.

<sup>36</sup> Acoustic values are subject to change. For current information see [hp.com/support](http://hp.com/support).

<sup>37</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See [epeat.net](http://epeat.net) for registration status by country.

<sup>38</sup> 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.

<sup>39</sup> The HP Staple Cartridge Pack accessory is available for the HP Color LaserJet Enterprise MFP M577f/c/z models.

<sup>40</sup> The HP Jetdirect 3000w NFC/Wireless Direct accessory is available for the HP Color LaserJet Enterprise MFP M577dn/f/c models.

<sup>41</sup> Service levels and response times may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit [hp.com/go/cpc](http://hp.com/go/cpc).

<sup>42</sup> Color access control capabilities vary from device to device.

<sup>43</sup> Availability dependent on firmware or software updates or upgrades.

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