



# HP Color LaserJet Enterprise Flow MFP X677zs Printer series

Powerfully productive. Extraordinarily efficient.

Transform your workflows with advanced capabilities in a compact footprint. Customizable configurations from print speeds to color panels help to meet the needs of busy workgroups. All while protecting your business against evolving security threats.

This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: <http://www.hp.com/learn/ds>



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## Customizable and scalable solutions.

- Expand device functionality and performance with upgradeable options through any point while in contract.
- Get the functionality you need with input options to help optimize your device to meet your business needs and your budget.
- Choose storage options to handle data and documents stored on the device.

## Fast and seamless digitization

- Customize your print experience with cloud-connected HP Workpath apps. Access personalized content and integrate paper and digital workflows.<sup>1</sup>
- Give your team the tools to succeed with the HP Open Extensibility Platform containing hundreds of HP and third-party solutions, and card reader support.
- Make color management simple with HP Custom Color Manager. Match color output of any document-device combination by simply pulling color profiles from the cloud. Get high-quality color profiles without the hassle of expensive color matching systems.<sup>10</sup>
- Targeted fusing technology<sup>2</sup> requires less energy and helps to reduce cooling requirements allowing for larger, faster color print jobs.

## Everything you expect from an office printer

- Experience ultra-fast scanning speeds and ultimate productivity with HP Flow technology and up to 200 ipm<sup>3</sup>
- Busy work groups can get everything done with fast print speeds of up to 65 PPM<sup>4</sup> setting the pace to handle any workload with reliable quality.
- Avoid interruptions and lost productivity with reverse and retry technology<sup>5</sup> that automatically detects and resolves multi-sheet feed issues.
- Easily scan and capture text to digitize documents with high accuracy OCR software. Once scanned, make edits to the document before printing. Increase the speed of OCR scanning with an optional accelerator card.<sup>6</sup>

## Always on guard with HP Wolf Security

- With HP Sure Start always working behind the scenes, the operating code (BIOS) is automatically checked during start-up and repairs itself if compromised.
- HP Connection Inspector examines network connections. The printer's outgoing network connections are inspected to stop suspicious requests and thwart malware so you can stay connected and in the clear.
- Memory Shield<sup>TM</sup> and expanded run-time intrusion detection protects memory and other applications. Common Criteria certified<sup>8</sup> to continually monitor memory activity, detect and stop zero-day attacks in real time [known/unknown] and self-heal.
- Minimize exposure with whitelisting checks, firmware that is automatically checked during start-up to determine if it's authentic code – digitally signed by HP.

<sup>1</sup> Not all MFPs may be compatible with Workpath apps. To enable HP Workpath, some devices may require optional accessory or firmware to be upgraded. Not all apps may be available in all locations. Subscription may be required. Personalized content and integration functions are applicable to supported HP Workpath apps only.

<sup>2</sup> Targeted fusing technology comes standard on the 6000/X600 series bundles and is offered as an optional service part on the 5000/X500 series.

<sup>3</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. Measured using standards found at:

[http://standards.iso.org/ittf/PubliclyAvailableStandards/SC28\\_Test\\_Pages/](http://standards.iso.org/ittf/PubliclyAvailableStandards/SC28_Test_Pages/)

<sup>4</sup> 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.

<sup>5</sup> Reverse and retry technology is only available on Flow-based models.

<sup>6</sup> Availability of Workflow accelerator card is expected Spring of 2023.

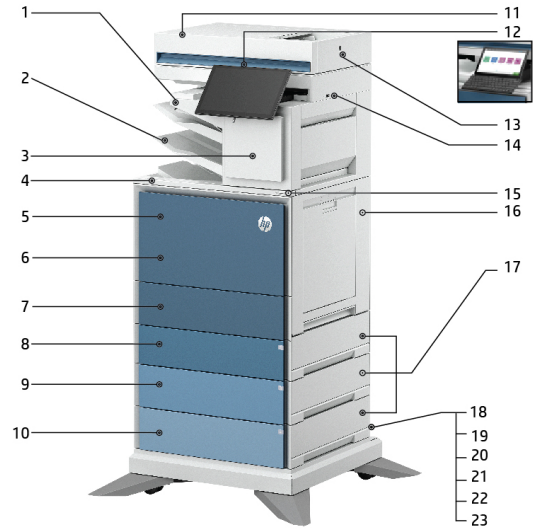
<sup>7</sup> HP's most advanced embedded security features are available on HP Managed and Enterprise devices with HP FutureSmart firmware 4.5 or above. Claim based on HP review of 2022 published features of competitive in-class printers. Only HP offers a combination of security features to automatically detect, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. For a list of compatible products, visit: <http://www.hp.com/go/PrintersThatProtect>. For more information, visit: <http://www.hp.com/go/printersecurityclaims>.

<sup>8</sup> Third-party certification based on Common Criteria Information Technology Security Evaluation ISO/IEC 15408 Standard requirements as of May 2019-2024. Certification applicable to HP Managed and Enterprise devices running HP FutureSmart Firmware version 4.5.1 and later. For more information: <https://www.commoncriteriaportal.org/files/epfiles/Certification%20Report%20-%20HP%20Intrusion%20Detection.pdf>.

<sup>10</sup> Contact your HP or your Partner Representative to learn more about Custom Color Manager.

## Product walkaround

1. Hardware Integration Pocket<sup>1</sup> (for connecting accessories and third-party devices)
2. 750-sheet multi-bin staple finisher
3. Staple cartridge access door
4. Automatic 2-sided printing
5. Front door access to process cartridges
6. HP High Performance Secure Hard Disk
7. Front door access to toner cartridges
8. 550-sheet tray 2 supports media sizes up to Legal (8.5x14 inch)
9. 550-sheet tray 3 supports media sizes up to Legal (8.5x14 inch)
10. 550-sheet tray 4 supports media sizes up to Legal (8.5x14 inch)
11. 150-sheet dual side Flow enabled ADF supports media sizes up to Legal (8.5x14 inch)
12. 10.1 inch color touchscreen display (25.6 cm) - Optional QWERTY physical keyboard attaches only to 10.1 inch color touchscreen display Full size keyboard (Flow models only)
13. Long originals media sensor
14. Easy-access USB port<sup>2</sup>
15. Power button
16. Right door access to the print path
17. Tray 2, 3 & 4 jam access doors
18. Slot for cable-type security lock<sup>5</sup>
19. SuperSpeed USB 3.0 Host Port<sup>5</sup>
20. Hi-Speed USB 2.0 Host Port<sup>5</sup>
21. Gigabit Ethernet Port<sup>5</sup>
22. SuperSpeed 3.0 device port<sup>5</sup>
23. (Optional OCR Accelerator Card)<sup>5</sup>



## Series at a glance



Model	HP Color LaserJet Enterprise Flow MFP X677zs Printer
Product number	6QQ02A
Functions	Print, copy, and scan (fax and wireless optional) (all models)
Print speed (A4 and letter, black and color) <sup>3</sup>	52/55 ppm (A4/letter), 61/65 ppm (A4/Letter) with optional speed license
Control panel	10.1 inch color touchscreen display
Scan speed <sup>4</sup>	100/200 ipm (simplex/duplex)
Recommended Monthly Page Volume	Up to 30,000 pages per month
Input capacity	1,750/1,750 (std/max)
Output capacity (standard)	1,000-sheets
Processor	Quad-core 1.6 GHz
Flow solutions	Yes
Workpath enabled	Yes
Extensibility	HP FutureSmart 5, OXPd

<sup>1</sup> Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase.

<sup>2</sup> An administrator must enable the easy-access USB port before use.

<sup>3</sup> Measured using ISO/IEC 24734, excludes first set of test documents. For more information, see [hp.com/go/printer](http://hp.com/go/printer) claims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

<sup>4</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

<sup>5</sup> Additional items included on the back of the printer in the Input/Output Plate.

## HP Services

Downtime can have serious consequences, so HP provides support beyond the standard warranty. You benefit from reduced risk, maximized uptime, predictable service delivery and no unbudgeted repair costs. HP Care Pack Services provide a comprehensive suite of protection services designed to keep HP hardware and software up and running so employees can stay productive.

For carepack availability visit: [hp.com/go/cpc](http://hp.com/go/cpc)



### Accessories

1M0Q0A	HP MFP Analog Fax 702 Accessory
1M0Q2A	HP LaserJet Workflow Keyboard
1M0Q5A	HP LaserJet Workflow Accelerator Card
2NR12A	HP Removable Hard Drive Enclosure
2TD64A	HP Accessibility Kit
35H11A	HP HID Mobile Access Mifare DES Fire Keystroking Reader
3JN69A	HP Jetdirect 3100w BLE/NFC/Wireless Accessory
478C2A	HP Printing Voice Assistant
49K94AAE	HP Color LaserJet Enterprise MFP X677 55 to 65ppm License
4QL32A	HP Legic Secure USB Reader
4XN67A	Internal USB Expansion Kit
616G9A	HP LaserJet A5 HCI Guide Kit
616H0A	HP LaserJet Statement HCI Guide Kit
630C2A	HP CLJ X677 Constellation Yellow Color Panel Kit
630C3A	HP CLJ X677 Cosmic Green Color Panel Kit
630C4A	HP CLJ X677 Aurora Purple Color Panel Kit
630C5A	HP CLJ X677 Comet Red Color Panel Kit
630C6A	HP CLJ X677 Lunar Gray Color Panel Kit
630C7A	HP 550 Sheet Paper Tray Constellation Yellow Panel Kit
630C8A	HP 550 Sheet Paper Tray Cosmic Green Panel Kit
630C9A	HP 550 Sheet Paper Tray Aurora Purple Panel Kit
630D0A	HP 550 Sheet Paper Tray Comet Red Panel Kit
630D1A	HP 550 Sheet Paper Tray Lunar Gray Panel Kit
630D2A	HP HC Tray Constellation Yellow Panel Kit
630D3A	HP HC Tray Cosmic Green Panel Kit
630D4A	HP HC Tray Aurora Purple Panel Kit
630D5A	HP HC Tray Comet Red Panel Kit
630D6A	HP HC Tray Lunar Gray Panel Kit
630D7A	HP Storage Stand Constellation Yellow Panel Kit
630D8A	HP Storage Stand Cosmic Green Panel Kit
630D9A	HP Storage Stand Aurora Purple Panel Kit
630F0A	HP Storage Stand Comet Red Panel Kit
630F1A	HP Storage Stand Lunar Gray Panel Kit
65A28A	HP Color LaserJet Constellation Yellow 550 sheet Paper Tray
65A29A	HP Color LaserJet Cosmic Green 550 sheet Paper Tray
65A30A	HP Color LaserJet Aurora Purple 550 sheet Paper Tray
65A31A	HP Color LaserJet Comet Red 550 sheet Paper Tray
65A32A	HP Color LaserJet Lunar Gray 550 sheet Paper Tray
65A33A	HP Color LaserJet Constellation Yellow 2100 sheet High Capacity Paper Tray/Stand
65A34A	HP Color LaserJet Cosmic Green 2100 sheet High Capacity Paper Tray/Stand
65A35A	HP Color LaserJet Aurora Purple 2100 sheet High Capacity Paper Tray/Stand
65A36A	HP Color LaserJet Comet Red 2100 sheet High Capacity Paper Tray/Stand
65A37A	HP Color LaserJet Lunar Gray 2100 sheet High Capacity Paper Tray/Stand
65A38A	HP Color LaserJet Constellation Yellow Storage Stand
65A39A	HP Color LaserJet Cosmic Green Storage Stand
65A40A	HP Color LaserJet Aurora Purple Storage Stand
65A41A	HP Color LaserJet Comet Red Storage Stand
65A42A	HP Color LaserJet Lunar Gray Storage Stand
8FP31A	HP Jetdirect LAN Accessory
9EQ11A	HP 500GB CCC, FIPS Hard Disk Drive
B5L31A	HP Foreign Interface Harness
CC543B	HP SmartCard NIPRNet Solution for US Government
F8B30A	HP SmartCard SIPRNet Solution for US Government
X3D03A	HP USB Universal Card Reader
Y7C05A	HP HIP2 Keystroke Reader

### Solutions

**Overview:** When it comes to business, the more cost-effective and efficient, the better. HP Document and Workflow Solutions can help improve productivity and drive down costs, enabling employees—and your IT team—to work more efficiently

**Workflow:** HP Capture & Route; HP Workpath Apps; HP Intelligent Workflows Capture

**Security:** HP Access Control; HP Security Manager; HP Advance; HP card readers; HP Secure Print and Insights

**Mobile and universal print:** HP Universal Print Driver (UPD); HP Print for Chrome Extension; HP For Universal Print Workpath App

**Management:** HP Web JetAdmin; HP Smart Device Services (SDS); Embedded Web Server

### Services

**U45TKE** HP 3 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45TLE** HP 4 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45TME** HP 5 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45TNE** HP 3 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45TQE** HP 4 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45TRE** HP 5 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45TXE** HP 3 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45TYE** HP 4 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45TZE** HP 5 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45U0PE** HP 1 year Post Warranty Next Business Day with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45U2PE** HP 1 year Post Warranty 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP X677xx

**U45U6PE** HP 1 year PW Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP X677xx

**U9JT2E** HP Installation Service with network configuration for Workgroup Printer

**U34Y1E** HP Print Carbon Neutral Certification Service

# HP Color LaserJet Enterprise Flow MFP X677zs Printer series

<b>Model</b>	HP Color LaserJet Enterprise Flow MFP X677zs Printer
<b>Product number</b>	6QQ02A
<b>AIO functions</b>	Print, copy, scan, fax (optional)
<b>Print</b>	
<b>Print speed<sup>6,7,5</sup></b>	<b>First page out Letter:</b> As fast as 6.5 sec; As fast as 6.4 sec (with 49K94AAE) Black; As fast as 7.3 sec; As fast as 6.9 sec (with 49K94AAE) Color; <b>First page out A4:</b> As fast as 6.6 sec; As fast as 6.5 sec (with 49K94AAE) Black; As fast as 7.4 sec; As fast as 7.1 sec (with 49K94AAE) Color; <b>Letter:</b> Up to 55 ppm; Up to 65 ppm (with 49K94AAE) Black; Up to 55 ppm; Up to 65 ppm (with 49K94AAE) Color; <b>A4:</b> Up to 52 ppm; Up to 61 ppm (with 49K94AAE) Black; Up to 52 ppm; Up to 61 ppm (with 49K94AAE) Color; <b>Print speed (Landscape, A5):</b> Up to 84 ppm; Up to 99 ppm (with 49K94AAE) Black; Up to 84 ppm; Up to 99 ppm (with 49K94AAE) Color
<b>Print resolution</b>	<b>Black (best)</b> Up to 1200 x 1200 dpi; <b>Black (normal)</b> Up to 600 x 600 dpi; <b>Black (fine lines)</b> Up to 1200 x 1200 dpi <b>Color (best):</b> Up to 1200 x 1200 dpi; <b>Color (normal):</b> Up to 600 x 600 dpi; <b>Color (fine lines):</b> Up to 1200 x 1200 dpi
<b>Print technology</b>	Laser; <b>Print resolution technology:</b> HP ImageREt 4800, Fine Lines (1200x1200 dpi), Quickview (300x300 dpi)
<b>Print cartridges number</b>	4 toner cartridges (1 each for black, cyan, magenta, yellow); 4 drum units (1 each for black, cyan, magenta, yellow)
<b>Standard print languages</b>	HP PCL 6, HP PCL 5, HP PostScript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
<b>Printer smart software features</b>	Apple AirPrint™, Mopria-certified, HP ePrint, ROAM optional for easy printing, Open Extensibility Platform, FutureSmart Firmware, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, Hardware Integration Pocket, Intuitive 10.1 in (25.6 cm) touchscreen control panel, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, print preview
<b>Printer management / HP SureSupply</b>	HP Web JetAdmin; Embedded Web Server; HP Security Manager; HP Insights; HP Advance; HP Command Center; HP Smart Device Services (SDS); HP Smart Device Services (SDS)/ %Products.suresupplysupport%
<b>Scan</b>	
<b>Scan type / Technology</b>	<b>Type:</b> Flatbed, ADF; <b>Technology:</b> Charge Coupled Device (CCD) Flatbed; Contact Image Sensor (CIS) ADF; <b>Twain version:</b> Version 2.4
<b>Scan resolution</b>	<b>Hardware:</b> Up to 600 x 600 dpi; <b>Optical:</b> Up to 600 dpi
<b>Scan file format</b>	PDF; Hi-Compression PDF; PDF/A; JPEG; TIFF; MTIFF; XPS
<b>Scan input modes</b>	Front panel applications: Copy; Fax; Scan to Email; Scan to Network Folder; Scan to USB; Scan to Job Storage; Open Extensibility Platform (OXP), HP Workpath applications
<b>Scan Size</b>	<b>ADF:</b> 8.5 x 34.0 in Maximum; 2.7 x 5 in Minimum; <b>Flatbed:</b> 8.5 x 14 in
<b>Scan speed<sup>10</sup></b>	Up to 100 ppm/200 ipm (b&w), up to 100 ppm/200 ipm (color); Up to 100 ppm/200 ipm (b&w), up to 100 ppm/200 ipm (color) (with 49K94AAE) Letter; Up to 95 ppm/190 ipm (b&w), up to 95 ppm/190 ipm (color); Up to 95 ppm/190 ipm (b&w), up to 95 ppm/190 ipm (color) (with 49K94AAE) A4; <b>Duplex:</b> Up to 200 ipm (b&w), up to 200 ipm (color); Up to 200 ipm (b&w), up to 200 ipm (color) (with 49K94AAE) Letter; Up to 190 ipm (b&w), up to 190 ipm (color); Up to 190 ipm (b&w), up to 190 ipm (color) (with 49K94AAE) A4
<b>Scanner advanced features</b>	Optimize text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect color; Edge Erase; Job notification; Blank page suppression; HP Quick Sets; HP EveryPage; Auto orientation; Embedded Optical Character Recognition (OCR), Auto crop to page; Auto-tone; Onscreen editing with highlighting, redaction and signature capabilities; <sup>11</sup> HP recommends that the number of scanned pages per month be within the stated range for optimum device performance For Scan software, we support: Windows (JPG, RAW(BMP), PDF, TIFF, PNG, RTF) and Mac (JPG, JPG-2000, TIFF, PNG, PDF, Searchable PDF, RTF, TXT)
<b>Bit depth / Grayscale levels</b>	24-bit / 256
<b>Digital sending standard features</b>	Scan to Email; scan to network folder; scan to USB drive; scan to SharePoint; scan to FTP; scan to sFTP; scan to LAN fax; scan to Internet Fax; local address book; SMTP over SSL; automatically detect color/monochrome; high compression PDF; image adjustments (darkness, contrast, background cleanup, sharpness); optimize text/picture (text, mixed, printed picture, photograph); content orientation; scan mode (book, 2-sided ID), erase edges; auto page crop; job build; image preview; blank page suppression; automatically straighten; embedded OCR; optimize text/picture (auto); scan to multi-destination; automatic tone; auto orientation; multi-feed detection; reverse and retry; document editing; auto paper color removal; job separation (blank page, barcode); watermark; stamps
<b>Copy</b>	
<b>Copy speed</b>	<b>Letter:</b> Up to 55 cpm; Up to 65 cpm (with 49K94AAE) Black; Up to 55 cpm; Up to 65 cpm (with 49K94AAE) Color; <b>A4:</b> Up to 52 cpm; Up to 61 cpm (with 49K94AAE) Black; Up to 52 cpm; Up to 61 cpm (with 49K94AAE) Color; <b>First copy out Letter:</b> As fast as 5.2 sec; As fast as 5.0 sec (with 49K94AAE) Black; As fast as 6.1 sec; As fast as 5.9 sec (with 49K94AAE) Color; <b>First copy out A4:</b> As fast as 5.3 sec; As fast as 5.1 sec (with 49K94AAE) Black; As fast as 6.2 sec; As fast as 6.0 sec (with 49K94AAE) Color; <b>2-sided Letter:</b> Up to 55 ipm; Up to 65 ipm (with 49K94AAE) Black; Up to 55 ipm; Up to 65 ipm (with 49K94AAE) Color; <b>2-sided A4:</b> Up to 52 ipm; Up to 61 ipm (with 49K94AAE) Black; Up to 52 ipm; Up to 61 ipm (with 49K94AAE) Color
<b>Copy resolution</b>	<b>Color (text and graphics):</b> Up to 600 x 600 dpi
<b>Maximum Number of Copies</b>	Up to 9999 copies
<b>Copier resize</b>	25 to 400%
<b>Copier settings</b>	Book Copy; Booklet; Build Job; Collation; Color; Content orientation; Copy preview; Darkness control; Default Original Size; Edge Erase; Edge-to-Edge; ID Copy; Image adjustment; Job build; N or Z-ordering; Number of Copies; N-up; Original Size; Original Type; Paper Size; Paper Source; Paper type; Photo; Save Current Settings; Staple; Text; Text/Photo; Tray Selection; Two-sided copy; Watermark; reduce/enlarge; Scan mode (book, 2-sided ID); Stamps; Image overlay; Image shift; Image preview; Paper selection; Scan to job storage; Automatically straighten; Automatically detect color/monochrome; Auto tone; Multi-feed detection; Document editing; Auto paper color removal
<b>Fax</b>	
<b>Fax speed<sup>4</sup></b>	<b>Up to:</b> Up to 33.6 kbps / <b>Letter:</b> 3 sec per page
<b>Fax resolution</b>	<b>Black (best):</b> Up to 300 x 300 dpi; <b>Black (standard):</b> 200 x 100 dpi
<b>Fax smart software features</b>	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule
<b>Fax Features</b>	<b>Fax memory:</b> Up to 1000 pages; <b>Auto fax reduction supported:</b> Yes; <b>Auto-redialing:</b> Yes; <b>Fax delayed sending:</b> No; <b>Distinctive ring detection supported:</b> No; <b>Fax forwarding supported:</b> Yes (with optional analog fax accessory); <b>Fax phone TAM interface supported:</b> No; <b>Fax polling supported:</b> Yes (poll to receive only); <b>Fax telephone mode supported:</b> No; <b>Junk barrier supported:</b> Yes, up to 30 numbers may be blocked; <b>Maximum speed dialing numbers:</b> Up to 1000 numbers; <b>PC interface supported:</b> Yes; <b>Remote retrieval capability supported:</b> No; <b>Telephone handset supported:</b> No
<b>Connectivity</b>	
<b>Standard connectivity</b>	1 SuperSpeed USB 3.0 (device); 1 SuperSpeed USB 3.0 (host); 1 Hi-Speed USB 2.0 (host); 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket 2nd generation (HIP2)
<b>Network capabilities</b>	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (optional).
<b>Mobile printing capability</b>	HP ePrint; Apple AirPrint™; Mopria™ Certified; Roam optional; NFC Touch-to-print (optional)
<b>Memory</b>	<b>Standard:</b> 6 GB; <b>Maximum:</b> 6 GB
<b>Processor speed</b>	1.6 GHz
<b>Storage</b>	500 GB hard disk drive <b>Hard disk:</b> Standard, minimum 500 GB HDD; Optional, 256 GB SSD
<b>Duty cycle (monthly)</b>	<b>Letter:</b> Up to 180,000 pages; <b>A4:</b> Up to 180,000 pages; <b>Recommended monthly page volume:</b> 4000 to 30,000

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<b>Model</b>	HP Color LaserJet Enterprise Flow MFP X677zs Printer
<b>Product number</b>	6QQ02A
<b>Paper handling</b>	
<b>Input</b>	3x 550-sheet input tray, 100-sheet multi-purpose tray; Up to 1750 sheets Standard; Up to 10 envelopes
<b>Output</b>	<b>Standard:</b> 500-sheet output tray, 500-sheet output stapler stacker, two-sided printing; Up to 1000 sheets Standard
<b>Duplex Options</b>	Automatic
<b>Auto document feeder capacity</b>	Standard, 150 sheets; <b>Duplex ADF scanning:</b> Yes
<b>Envelope feeder</b>	No
<b>Standard paper trays</b>	<b>Standard:</b> 4; <b>Maximum:</b> Up to 4
<b>Media types</b>	Paper (plain, light, intermediate, light bond, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), color transparency, labels, letterhead, envelope, preprinted, prepunched, colored, rough, opaque film, user-defined
<b>Media weight</b>	Tray 1: 16 to 58 lb (plain), 32 to 58 lb (glossy); Tray 2: 16 to 58 lb (plain), 32 to 58 lb (glossy); optional 550-sheet input trays: 16 to 58 lb (plain), 32 to 58 lb (glossy); optional 2,100-sheet high-capacity input: 16 to 58 lb (plain)
<b>Media sizes</b>	Tray 1: letter, legal, executive, statement, Oficio, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, envelopes (No. 9, No. 10, Monarch); Tray 2, Tray 3, Tray 4: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in
<b>Media Sizes Custom</b>	Tray 1: 2.52 x 5 to 8.5 x 47.24 in; Tray 2, Tray 3, Tray 4: 4 x 5.83 to 8.5 x 14 in
<b>Dimensions (W x D x H)<sup>12</sup></b>	20.5 x 20.8 x 50.2 in; 520 x 528 x 1274 mm; <b>Maximum:</b> 34.3 x 32.4 x 59.8 in; 870 x 823 x 1519 mm
<b>Weight</b>	~186.34 lb; ~84.70 kg
<b>What's in the box<sup>1</sup></b>	HP Color LaserJet Multifunction Printer; HP Black Original LaserJet Toner Cartridge (~9,000 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~5,000 yield each) (toner cartridges installed); Documentation (Hardware Install Guide); Power cord; Tray Lock Kit (Paper-size cassette locks, paper tray interface screws, P-cartridge door access control screws)
<b>Replacement cartridges<sup>2</sup></b>	W9270MC HP W9270MC Black Managed Original LaserJet Toner Cartridge (~44,000 pages); W9271MC HP W9271MC Cyan Managed Original LaserJet Toner Cartridge (~33,000 pages); W9272MC HP W9272MC Yellow Managed Original LaserJet Toner Cartridge (~33,000 pages); W9273MC HP W9273MC Magenta Managed Original LaserJet Toner Cartridge (~33,000 pages); W9280MC HP W9280MC Black Managed Original LaserJet Imaging Drum (~150,000 pages); W9281MC HP W9281MC Cyan Managed Original LaserJet Imaging Drum (~150,000 pages); W9282MC HP W9282MC Yellow Managed Original LaserJet Imaging Drum (~150,000 pages); W9283MC HP W9283MC Magenta Managed Original LaserJet Imaging Drum (~150,000 pages)
<b>Orderable supplies</b>	HP W9280MC Black Managed Original LaserJet Imaging Drum (~150,000 pages); HP W9281MC Cyan Managed Original LaserJet Imaging Drum (~150,000 pages); HP W9282MC Yellow Managed Original LaserJet Imaging Drum (~150,000 pages); HP W9283MC Magenta Managed Original LaserJet Imaging Drum (~150,000 pages); HP LaserJet 110V Enhanced Fuser Kit 527G2A; HP LaserJet 220V Enhanced Fuser Kit 527G3A; HP LaserJet Managed 110V Enhanced Fuser Kit 527G4MC; HP LaserJet Managed 220V Enhanced Fuser Kit 527G5MC; HP LaserJet Managed Image Transfer Belt Kit 527H0MC; HP LaserJet Managed Transfer Roller Kit 527H1MC; HP LaserJet Tray 2 Roller Kit 527H2A; HP LaserJet MP Tray Roller Kit 527H3A; HP LaserJet ADF Maintenance Kit 6H122A; HP LaserJet ADF Flow Maintenance Kit 6M1P3A; HP LaserJet Toner Collection Unit 527F9A; HP Staple Cartridge Refill (5,000 staples) JBJ96A
<b>Warranty features</b>	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to <a href="http://hp.com/support">http://hp.com/support</a> to learn about HP award winning service and support options in your region.
<b>Energy star certified</b>	Yes
<b>Energy efficiency compliance<sup>3</sup></b>	CECP; IT ECO Declaration; Blue Angel; SEPA; EPEAT® Gold registered; KOECO
<b>Control panel</b>	10.1 in (25.6 cm) Color Graphics Display (CGD) with touchscreen, rotating (adjustable angle) display
<b>Display</b>	10.1 in (25.6 cm) Color Graphics Display (CGD) with touchscreen, rotating (adjustable angle) display
<b>Software included</b>	No software solutions are included in the Box only on <a href="http://hp.com">http://hp.com</a> <a href="http://123.hp.com">http://123.hp.com</a> ;
<b>Fonts and typefaces</b>	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at <a href="https://www.hp.com/go/laserjetfonts">https://www.hp.com/go/laserjetfonts</a>
<b>Compatible operating systems</b>	Windows 11; Windows 10; Windows 7; Windows Client OS; Android; iOS; Mobile OS; macOS 12 Monterey; macOS 11 Big Sur; macOS 10.15 Catalina; Linux; Chrome OS
<b>Compatible network operating systems</b>	Windows Server; Citrix; UNIX; Novell; SAP
<b>Minimum system requirements</b>	<b>PC:</b> 2 GB available hard disk space; Internet connection; or USB port; Internet browser. For additional OS hardware requirements see <a href="http://microsoft.com">microsoft.com</a> ;; <b>Mac:</b> 2 GB available hard drive space; Internet connection; or USB port; Internet browser. For additional OS hardware requirements see <a href="http://apple.com">apple.com</a> ;
<b>Power<sup>9</sup></b>	<b>Power supply type:</b> Built in 110V or 220 V Power Supply (not dual voltage, power supply varies by part number with option code identifier); <b>Power supply required:</b> Input voltage: 100 V to 127 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 12 A; Input voltage: 220 V to 240 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 6 A; <b>Power consumption:</b> 816 watts (Printing/Copying), 63.4 watts (Ready), 1.1 watts (Sleep), 0.1 watts (Auto Off/Manual On), 0.1 watts (Manual Off); <b>Typical electricity consumption (TEC) number:</b> 0.849 kWh/week (Energy Star 3.0); 0.810 kWh/week (Blue Angel)
<b>Acoustics</b>	<b>Acoustic power emissions:</b> 6.6 B(A)
<b>Operating environment</b>	<b>Operating temperature range:</b> 50 to 91°F ; <b>Recommended operating temperature:</b> 59 to 80.6°F ; <b>Storage temperature range:</b> -4 to 104°F ; <b>Operating humidity range:</b> 10 to 80% RH ; <b>Recommended operating humidity range:</b> 30 to 70% RH
<b>Security management</b>	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 WIA-10 IPsec configuration Plug-in; 802.1X authentication (EAP-PEAP; EAP-TLS); SNMPv3; H1TPS; 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; Hardware-based Memory Shield™ with Control Flow Integrity (CFI) 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 Device Security Syslog Messages processed and accessible in Arcsight and Splunk SIEMs

- <sup>1</sup> For yield information on the cartridge(s) included with your printer, see <https://www.hp.com/go/toneryield>. Yield values measured in accordance with ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors.
- <sup>2</sup> Declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <https://www.hp.com/go/toneryield>
- <sup>3</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See <https://www.epeat.net> for registration status by country.
- <sup>4</sup> Based on standard ITU-T test image #1 at standard resolution. More complicated pages or higher resolution will take longer and use more memory.
- <sup>5</sup> Measured using ISO/IEC 24734 Feature Performance Test, excludes first set of test documents. For more information see <https://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
- <sup>6</sup> Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <https://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
- <sup>7</sup> Measured using ISO/IEC 17629. For more information see <https://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
- <sup>8</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. Energy Star value typically based on measurement of 115V device and 230V for Blue Angel.
- <sup>9</sup> Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).
- <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> HP recommends that the number of scanned pages per month be within the stated range for optimum device performance
- <sup>12</sup> Maximum dimensions means doors, paper trays, and ADF (if applicable) are fully open.

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