HP Color LaserJet Enterprise Flow MFP X677z+ Printer

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

Customizable and scalable solutions 1]

- 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.
- HP's innovative in line scan bar in an A4 printer helps to diagnose print quality issues with accurate remediation steps.

Fast and seamless digitization

- Customize your print experience with cloud-connected HP Workpath apps. Access personalized content and integrate paper and digital workflows.[2]
- 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.[3]
- Targeted fusing technology[4] 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 190 ipm[5]
- Get everything done with fast print speeds up to 61 ppm.[6]
- HP's innovative in-line scan bar in an A4 printer helps to diagnose print quality issues with accurate remediation steps.
- Avoid interruptions and lost productivity with reverse-and-retry technology[7] 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.[8]

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 ShieldTM and expanded run-time intrusion detection protects memory and other applications. Common Criteria certified[9] 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.

Product walkaround

1. Automatic 2-sided printing
2. 3,300-sheet high-capacity Staple Finisher with hole-punch option
3. Front door access to process cartridges
4. HP High Performance Secure Hard Disk
5. Front door access to toner cartridges
6. 550-sheet tray 3 supports media sizes up to A4
7. 2,100-sheet High-Capacity tray/stand supports media sizes up to A4
8. 150-sheet dual side Flow enabled ADF supports media sizes up to A4
9. 25.6 cm color touchscreen display (10.1 inch) - Optional QWERTY physical keyboard attaches only to 10.1 inch color touchscreen display Full size keyboard (Flow models only)
10. Long originals media sensor
11. Easy-access USB port
12. Convenience Stapler
13. Hardware Integration Pocket (for connecting accessories and third-party devices)
14. Power button
15. 100-sheet multipurpose tray 1 supports media sizes up to A4
16. Right door access to the print path
17. Tray 2, 3 & 4 jam access doors
18. 550-sheet tray 2 supports media sizes up to A4
19. Slot for cable-type security lock
20. SuperSpeed USB 3.0 Host Port
21. Hi-Speed USB 2.0 Host Port
22. Gigabit Ethernet Port

Series at a glance

Model	HP Color LaserJet Enterprise Flow MFP X677z+ Printer
Product number	6QQ03A+ 632P2A
Functions	Print, copy, and scan (fax and wireless optional) (all models)
Print speed	52 ppm (A4), 61 ppm (A4) with optional speed license
Control panel	25.6 cm color touchscreen display
Scan speed	100/200 ipm (simplex/duplex)
RMPV	Up to 30,000 pages per month
Input capacity	3,300/3,300 (std/max)
Output capacity (standard)	3,300-sheets
Processor	Quad-core 1.6 GHz
Flow solutions	Yes
Workpath enabled	Yes
Extensibility	HP FutureSmart 5, OXPd

Accessories, Supplies and Support

Supplies	**527F9A** HP LaserJet Toner Collection Unit **527G5MC** HP LaserJet 220V Fuser Assembly **527H0MC** HP LaserJet Image Transfer Belt Kit **527H1MC** HP LaserJet Managed Transfer Roller Kit **527H2A** HP LaserJet Managed Transfer Roller Kit **527H3A** HP LaserJet Flow MP Roller Kit **6H122A** HP LaserJet ADF Maintenance Kit **6M1P3A** HP LaserJet ADF Maintenance Kit **W9270MC** HP W9270MC Black Managed Original LaserJet Toner Cartridge **W9271MC** HP W9271MC Cyan Managed Original LaserJet Toner Cartridge **W9272MC** HP W9272MC Yellow Managed Original LaserJet Toner Cartridge **W9273MC** HP W9273MC Magenta Managed Original LaserJet Toner Cartridge **W9280MC** HP W9280MC Black Managed Original LaserJet Imaging Drum **W9281MC** HP W9281MC Cyan Managed Original LaserJet Imaging Drum **W9282MC** HP W9282MC Yellow Managed Original LaserJet Imaging Drum **W9283MC** HP W9283MC Magenta Managed Original LaserJet Imaging Drum
Accessories	**1M0Q0A** HP MFP Analog Fax 702 Accessory **1M0Q1A** HP MFP Analog Fax 703 Accessory **1M0Q2A** HP LaserJet Workflow Keyboard **1M0Q3A** HP JetDirect 3200w BLE/Wireless Accy **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 **616H2A** HP LaserJet Workflow UK Keyboard **616H3A** HP LaserJet Workflow Healthcare Keyboard **616H4A** HP LaserJet Workflow Healthcare UK Keyboard **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 Constellaiton 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 **6QN54A** HP Color LaserJet Stand **6QN55A** HP Color LaserJet Storage Stand **6QN57A** HP Color LaserJet 550-sheet Media Tray **6QN58A** HP Color LaserJet 2100 HCI Feeder and Stand **8FP31A** HP Jetdirect LAN Accessory **9EQ11A** HP 500GB CCC, FIPS Hard Disk Drive **A7W13A** HP LaserJet Keyboard Overlay Kit-Danish/French-Switzerland/German-Switzerland
Service and Support	**U45TKE** HP 3 year Next Business Day Service with Defective Media Retention for Color LaserJet Ent MFP X677xx **U45TLE** HP 4 year Next Business Day Service with Media Retention for Color LaserJet Ent MFP X677xx **U45TME** HP 5 year Next Business Day Service with Media Retention for Color LaserJet Ent MFP X677xx **U45TXE** HP 3 year Parts Only Service with Defective Media Retention for Color LaserJetEntMFPX677xx **U45TYE** HP 4 year Parts Only Service with Defective Media Retention for Color LaserJetEntMFPX677xx **U45TZE** HP 5 year Parts Only Service with Defective Media Retention for Color LaserJetEntMFPX677xx **U45U0PE** HP 1 year Post Warranty Next Business Day Service with Defective Media Retention for Color LaserJet Ent MFP X677xx **U45U6PE** HP 1 year Post Warranty Parts Only Service with Defective Media Retention for Color LaserJetEntMFPX677xx

Technical specifications

Model	HP Color LaserJet Enterprise Flow MFP X677z+ Printer
Product number	+ 632P2A
Functions	Print, copy, scan, fax (optional)
Control panel	10.1 in (25.6 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display
Print	
Print technology	Laser
Print speed[6]	**Black (A4, normal)**: Up to 52 ppm; Up to 61 ppm (with 49K94AAE) **Colour (A4, normal)**: Up to 52 ppm; Up to 61 ppm (with 49K94AAE) ; **Black (A4, duplex)**: Up to 52 ipm; Up to 61 ipm (with 49K94AAE) **Colour (A4, duplex)**: Up to 52 ipm; Up to 61 ipm (with 49K94AAE)
First page out[7]	**Black (A4, ready)**: As fast as 8.8 sec; As fast as 7.9 sec (with 49K94AAE) **Colour (A4, ready)**: As fast as 9.2 sec; As fast as 8.7 sec (with 49K94AAE) ; **Black (A4, sleep)**: As fast as 11.3 sec; As fast as 10.6 sec (with 49K94AAE) **Colour (A4, sleep)**: As fast as 12.0 sec; As fast as 11.6 sec (with 49K94AAE)
Print resolution	**Black (best)**: Up to 1200 x 1200 dpi **Colour (best)**: Up to 1200 x 1200 dpi ; **Technology**: HP ImageREt 4800, Fine Lines (1200x1200 dpi), Quickview (300x300 dpi)
Monthly duty cycle	Up to 180,000 pages A4; **Recommended monthly page volume**: Up to 30,000 pages
Printer smart software features	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB, HP EasyColor
Standard print languages	HP PCL 6, HP PCL 5, HP PostScript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at https://www.hp.com/go/laserjetfonts
Print area	**Print margins** Top: 4.3 mm, Bottom: 4.3 mm, Left: 4.3 mm, Right: 4.3 mm; Maximum print area : 207.4 x 347.4 mm
Duplex printing	Automatic
Copy	
Copy speed	**Black (A4)**: Up to 52 cpm; Up to 61 cpm (with 49K94AAE); **Colour (A4)**: Up to 52 cpm; Up to 61 cpm (with 49K94AAE)
Copier specifications	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; Punch; 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 strainghten; Automatically detect color/monochrome; Auto tone; Multi-feed detection; Document editing; Auto paper color removal; **Maximum number of copies**: Up to 9999 copies; **Reduce/Enlarge**: 25 to 400%
Scan	
Scan speed[10]	**Normal (A4)**: 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) ;**Duplex (A4)**: Up to 190 ipm (b&w), up to 190 ipm (color); Up to 190 ipm (b&w), up to 190 ipm (color) (with 49K94AAE)
Scan file format[11]	PDF; Hi-Compression PDF; PDFA; JPEG; TIFF; MTIFF; XPS
Scanner specifications	**Scanner type** Flatbed ; ADF; **Scan technology**: Charge Coupled Device (CCD) Flatbed; Contact Image Sensor (CIS) ADF; **Scan input modes**: 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; **Twain version**: Version 2.4; **Duplex ADF scanning**: Yes; **Optical scan resolution**: Up to 600 dpi
Scanner 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; Onscreen editing with highlighting, redaction and signature capabilities
Scannable area	**Maximum media size (flatbed)**: 216 x 356 mm ;**Minimum media size (ADF)**: 68 x 127 mm **Maximum media size (ADF)**: 215.9 x 863.6 mm
Bit depth/ Grey scale levels	24-bit / 256
Digital sending	Standard: Scan to e-mail; save-to-network folder; save-to-USB drive; send to Sharepoint; send to FTP; send to sFTP; send to LAN fax; send to Internet Fax; local address book; SMTP over SSL; auto color sense; compact PDF; image adjustments (darkness, contrast, background cleanup, sharpness); optimized text/picture (auto, text, mixed, printed picture, photograph); content orientation; ID scan; job build; watermark; stamps; book mode scans; erase edges; image preview; blank page suppression; scan to multi destination; embedded OCR; auto-tone, auto orientation, auto¬page-crop; multi-feed detection; reverse and retry; document editing; auto paper color removal; job separation; automatically straighten
Fax	
Fax[4]	Optional, 33.6 kbps (with optional analog fax accessory)
Fax specifications	**Fax memory**: Up to 1000 pages; **Fax resolution**: Standard: 200 x 100 dpi; Fine: Up to 203 x 196 dpi; Superfine: Up to 300 x 300 dpi; **Quick dialing**: Up to 1000 numbers
Fax smart software features	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule
Processor speed	1.6 GHz
Connectivity	
Standard	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)
Optional	HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A; HP Jetdirect LAN Accessory 8FP31A
Mobile printing capability	HP ePrint; Apple AirPrint™; Mopria™ Certified; Roam optional
Supported network protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, Apple AirPrint™, HP ePrint, FTP Print, Google Cloud Print; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Stateful via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPs, Telnet, TFTP Config, FTP FW Download, Syslog; Security: SNMPv3, SSL Cert Management, Firewall, ACL, 802.1x
Network capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (optional).
Hard disk	Standard, minimum 500 GB HDD; Optional, 256 GB SSD
Memory	**Standard**: 6 GB ;**Maximum**: 6 GB
Media handling	
Number of paper trays	**Standard**: 5 ;**Maximum**: 5
Media types	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
Media size	**Custom (metric)**: Tray 1: 64 x 127 to 216 x 356 mm; Tray 2, Tray 3 (1x550-sheet feeder): 101 x 148 to 216 x 356 mm; Tray 4 (2,100-sheet high-capacity feeder): custom sizes not supported in this tray **Supported (metric)**: Tray 1: A4, A5, A6, RA4, B5, B6, 16k, 10 x 15 cm, Oficio, postcards (JIS single and double) envelopes (DL, C5, B5, C6); Tray 2, Tray 3 (1x550-sheet feeder): A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard (JIS); Tray 4 (2,100-sheet high-capacity feeder): A4; A5 (with optional accessory) **ADF**: Letter; legal; oficio; executive; statement; 16K; A4; RA4; A5; A6; B5; B6 (JIS); Postcard (JIS); DPostcard (JIS); 4 x 6 in; 5 x 7 in; 5 x 8 in; 68 x 147 mm to 215.9 x 863.6 mm; 2.68 x 5.79 in to 8.46 x 34 in
Media handling	**Tray 1:** Paper: 100 sheets of 75 g/m² media; Envelopes: 10 **Maximum:** Up to 3300 sheets **ADF:** Standard, 150 sheets
Media weight	Tray 1: 60 to 220 g/m² (plain), 120 to 220 g/m² (glossy); Tray 2: 60 to 220 g/m² (plain), 120 to 220 g/m² (glossy); optional 550-sheet input trays: 60 to 220 g/m² (plain), 120 to 220 g/m² (glossy); optional 2,100-sheet high-capacity input: 60 to 220 g/m² (plain)
Input capacity	**Standard input:** 100-sheet multi-purpose tray, 2x550-sheet input trays, 2,100-sheet high capacity input **Standard output:** Staple; Stack; Job Offset; Punch; Booklet Staple
Output capacity	**Standard:** Up to 3300 Sheets **Maximum:** Up to 3300 Sheets

Technical specifications

Model	HP Color LaserJet Enterprise Flow MFP X677z+ Printer
Product number	+ 632P2A
Compatible operating systems	Windows 11; Windows 10; Windows 7; Windows Client OS; Android; iOS; Mobile OS; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey; Linux; Citrix; Chrome OS
Compatible network operating systems	Windows Server; SAP; Novell; UNIX; Citrix; Linux
Minimum system requirements	**Windows**: 2 GB available hard disk space; Internet connection; or USB port; Internet browser. For additional OS hardware requirements see microsoft.com; **Mac**: 2 GB available hard drive space; Internet connection; or USB port; Internet browser. For additional OS hardware requirements see apple.com;
Software included	No software solutions are included in the Box only on http://hp.com http://123.hp.com;
Security management	Identity management: Kerberos authentication; LDAP authentication; 1000 user PIN codes; optional HP and 3rd party advanced authentication solutions (e.g.; badge readers); Network: IPsec/firewall with Certificate; Pre-Shared Key; and Kerberos authentication; Supports WJA-10 IPsec configuration Plug-in; 802.1X authentication (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS; Certificates; Access Control List; Data: Storage Encryption; Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft); Secure Erase; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock slot; USB port disablement; hardware integration pocket for security solutions; Hardware-based Memory ShieldTM 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 accessable in Arcsight and Splunk SIEMs
Printer management	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)
Dimensions and weight	
Printer dimensions (W x D x H)[12]	**Minimum** 1202 x 559 x 1267 mm; **Maximum**: 1562 x 939 x 1258 mm
Package dimensions (W x D x H)	760 x 790 x 1459 mm
Printer weight	133 kg
Package weight	~98.05 kg
Operating environment	**Temperature**: 10 to 32.5°C **Humidity**: 30 to 70% RH
Storage conditions	**Temperature**: -20 to 40°C
Acoustics	**Acoustic power emissions**: 6.7 B(A) **Acoustic pressure emissions**: 53 dB(A)
Power	**Requirements**: Input voltage: 100V to 127V nominal (+/-10%), 50 - 60Hz nominal (+/- 3Hz), 12 A; Input voltage: 220 V to 240V nominal, (+/-10%) 50 - 60Hz nominal (+/- 3Hz), 6 A; **Consumption**: 816 watts (Printing/Copying), 63.4 watts (Ready), 1.1 watts (Sleep), 0.1 watts (Auto Off/Manual On), 0.1 watts (Manual Off); **Typical Electricity Consumption (TEC)**[9]: 0.849 kWh/week (Energy Star 3.0); 0.810 kWh/week (Blue Angel); **Power supply type**: Built in 110V or 220 V Power Supply (not dual voltage, power supply varies by part number with option code identifier)
Energy savings feature technology	HP Auto-On/Auto-Off Technology; HP Auto-Off Technology; Instant-on Technology; Instant-on Copy; Power save
Certifications	UL/cUL (US/Canada); RCM (Australia); TUV and GS Mark (Germany); Department of Industrial Standards of Cambodia; Bureau of Standards, Metrology and Inspection Ministry of Economic Affairs - BSMI (Taiwan); Certificate of China Compulsory Product Certification - CCC (China); Bureau of Indian Standards - BIS Registration (India); PSB (Singapore); Eastern European country approvals; CE Marking; Other Safety & EMC Certification approvals as required by individual countries. **Electromagnetic emission standard**: CISPR 22:2008 (International) Class A, CISPR 32:2015 (International) Class A / EN 55032:2015 Class A + A11:2020, CISPR 35:2016 (International) / EN 55035:2017 + A11:2020, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019 + A2:2021, FCC 47 CFR Part 15 Class A, ICES-003, Issue 7 Class A. Other EMC approvals as required by individual countries. CECP; IT ECO Declaration; Blue Angel; SEPA; EPEAT® Gold registered; KOECO **Blue Angel compliant**[8] Yes, Blue Angel DE-UZ 219—only ensured when using Original HP supplies
Sustainable impact specifications	15% post-consumer recycled plastic; ENERGY STAR® certified; EPEAT® registered
Country of origin	Made in Czech Republic
What's in the box[1]	6QQ03A HP Color LaserJet Enterprise Flow MFP X677z+ 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)
Warranty	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://hp.com/support to learn about HP award winning service and support options in your region.

Footnotes

[1] To learn more about configure to order options, contact your HP or Partner Representative. [2] 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. [3] Contact your HP or your Partner Representative to learn more about Custom Color Manager. [4] Targeted fusing technology comes standard on the 6000/X600 series bundles and is offered as an optional service part on the 5000/X500 series. [5] 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/ [6] 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. [7] Reverse and retry technology is only available on Flow-based models. [8] Availability of Workflow accelerator card is expected Spring of 2023. [9] 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.

Technical specifications disclaimers

[1] For yield information on the cartridge(s) included with your printer, see http://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. [2] Declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/toneryield [3] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country. [4] Based on standard ITU-T test image #1 at standard resolution. More complicated pages or higher resolution will take longer and use more memory. [5] 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. [6] 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. [7] 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. [8] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115V device and 230V for Blue Angel. [9] Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh). [10] Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. [11] 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) [12] Maximum dimensions means doors, paper trays, and ADF (if applicable) are fully open. [13] Q7432A is the convenience stapler refill. J8J96A is the finisher stapler refill.