



HP LaserJet Enterprise MFP M431f

Small and mighty: HP's smallest Enterprise MFP



HP's entry-level Enterprise-class MFP with speeds up to 42 ppm⁸ and strongest security.¹

Easy to use, simple to manage

- HP FutureSmart firmware can be updated with the latest features² to optimize your investment for years to come.
- Centralize control of your printing environment with HP Web Jetadmin—and help build business efficiency.³
- Easily enable workflows across your fleet with a consistent user experience and intuitive, tablet-like icons.
- Set up this MFP fast, and easily manage device settings to help increase efficiency.

The world's most secure printing¹

- The operating code (BIOS) is automatically checked during startup and repairs itself if compromised.
- Common Criteria certified⁴ to continually monitor memory activity to detect and stop attacks in real time.
- Firmware is automatically checked during startup to determine if it's authentic code—digitally signed by HP.
- The printer's outgoing network connections are inspected to stop suspicious requests and thwart malware.
- Safeguard data stored on this MFP—keys, passwords, certificates, and more—with the embedded HP Trusted Platform Module.⁵

Enhanced productivity to empower work teams

- Give workgroups what they need to succeed with hundreds of HP and third-party solutions and card reader support.
- Optimize workflows, reduce steps and errors, and support mobile workers with optional MFP apps that meet your specific business needs.
- Help ensure the security of confidential information with PIN/Pull printing to retrieve print jobs.
- Stay connected with an optional accessory for wireless,⁶ Bluetooth® Low Energy, and NFC touch-to-print.
- Easily manage projects directly at the MFP with a customizable 4.3-inch (10.9 cm) color touchscreen.

Sustainability is smart business

- Help save paper right out of the box. Two-sided (duplex) printing is set at default for automatic savings.⁷
- Help reduce wasted paper and toner by only printing jobs that are truly needed, using HP Secure Print.⁸
- Save energy without sacrificing performance—this MFP is ENERGY STAR® and Blue Angel certified.
- Leverage HP End of Life Solutions to ensure your Hardware and Supplies are sustainably retired.

Footnotes

¹ 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 2019 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 hp.com/go/PrintersThatProtect. For more information, visit hp.com/go/PrinterSecurityClaims

² Some features enabled by future HP FutureSmart firmware upgrades may not be available on older devices, if for example, physical product characteristics limit the functionality of the new feature.

³ HP Web Jetadmin is free and available for download at hp.com/go/webjetadmin

⁴ Third-party certification based on Common Criteria Information Technology Security Evaluation ISO/IEC 15408 Standard requirements as of May 2019. 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>

⁵ Use of the HP Trusted Platform Module may require a firmware upgrade.

⁶ Wireless performance is dependent on physical environment and distance from access point and may be limited during active VPN connections.

⁷ Dependent upon country setup specifications.

⁸ HP Secure Print is optional and requires a license.

Technical specifications

Functions	Print, copy, scan, fax
Print technology	Laser
First page out ⁸	Black (A4, ready): As fast as 6.5 sec
Print resolution	Black (best): Up to 1200 x 1200 dpi
Monthly duty cycle	Up to 100,000 pages A4; Recommended monthly page volume: 900 to 4,800 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
Standard print languages	HP PCL 6, HP PCL 5, HP PostScript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
Print area	Print margins: Top: 2 mm, Bottom: 2 mm, Left: 2 mm, Right: 2 mm; Maximum print area: 212 x 352 mm
Number of supplies	1 (black)
Duplex printing	Automatic (default)
Copier specifications	Copier settings: Two-sided copying; Scalability; Image adjustments (darkness, contrast, background cleanup, sharpness); N-up; N or Z-ordering; Content orientation; Collation; Booklet; Job build; Edge-to-edge; Job storage; ID Copy; Book Copy; A-to-B Copy (different media sizes); Maximum number of copies: Up to 9999 copies;; Reduce/Enlarge: 25 to 400%
Copier smart software features	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
Scan speed ¹⁰	Normal (A4): Up to 29 ppm/46 ipm (b&w), up to 20 ppm/35 ipm (color); Duplex (A4): Up to 46 ipm (b&w), up to 35 ipm (color)
Scanner specifications	Scanner type ¹⁰ : Flatbed, ADF; Twain version: Version 2.1; Scan size maximum (flatbed): 216 x 297 mm; Scan size maximum (ADF,metric): 216 x 356 mm; 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
Recommended monthly scan volume	900 to 4800
Scannable area	Maximum media size (flatbed): 216 x 297 mm; Minimum media size (ADF): 5 x 7 in; Maximum media size (ADF): 216 x 356 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 FTP; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Color Sense; Auto Crop To Content; Compact PDF; Scan to Onedrive; Scan to Onedrive for Business; Scan to Sharepoint Online; Optional: Authentication; OCR; Send-to-folder; Local Address Book; HP Digital Sending Software (Optional); Digital fax (send to LAN, Internet)
Fax	Yes 33.6 kbps
Fax specifications	Fax memory: Dependent on the amount of available disk space; Fax resolution: Standard: 203 x 98 dpi; Fine: Up to 203 x 196 dpi; 256 levels of gray; Superfine: Up to 203 x 392 or 300 x 300 dpi; 256 levels of gray
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	800 MHz
Connectivity	Standard: 2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 FAX; Optional: HP Jetdirect LAN Accessory 8FP31A; HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A
Wireless	Optional, enabled with purchase of a wireless hardware accessory. Dual band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A
Mobile printing capability	HP ePrint; Apple AirPrint™; Mopria® Certified; Wi-Fi® Direct Printing; NFC Touch-to-print (optional); PrinterOn Print
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); second Ethernet port (Optional); Microsoft Universal Print (MUP) support
Hard disk	Not Available
Memory	Standard: 2 GB
Number of paper trays	Standard: 2
Media types	Paper (plain, eco efficient, light, heavy, bond, colored, letterhead, preprinted, prepunched, recycled, rough); envelopes; labels
Media size	Custom (metric): Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 105 x 148 to 216 x 356 mm; Optional Tray: 105 x 148 to 216 x 356 mm Supported (metric): Tray 1: A4, RA4, A5, B5 (JIS), B6 (JIS), 10 x 15 cm, A6, 16K, envelopes (B5, C5 ISO, C6, DL ISO); Custom: 76 x 127 to 216 x 356 mm; Tray 2: A4; RA4; A5; B5 (JIS); B6 (JIS); A6; 16K; 105 x 148 to 216 x 356 mm; Optional Tray 3: A4; RA4; A5; B5 (JIS); B6 (JIS); A6; 16K; 105 x 148 to 216 x 356 mm ADF: letter; legal; oficio; executive; statement; A4; RA4; A5;B5; 5 x 7 in; 5 x 8 in

Media weight, supported	Tray 1: 60 to 175 g/m²; tray 2, optional 550-sheet tray 3: 60 to 120 g/m²
Input capacity	Standard: Up to 350 sheets (Tray 1: up to 100 sheets; Tray 2: up to 250 sheets) ADF: Standard, 50 sheets Envelopes: Up to 900 sheets (with Optional 550-sheet tray)
Output capacity	Standard: Up to 150 sheets Envelopes: Up to 10 envelopes
Compatible operating systems	Windows 11; Windows 10; Windows 8; Windows 8.1; Windows 7; Windows Client OS; Android; iOS; Mobile OS; macOS 10.12 Sierra; macOS 10.13 High Sierra; macOS 10.14 Mojave; macOS 10.15 Catalina
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 or http://123.hp.com
Printer dimensions (W x D x H)	Minimum: 420 x 390 x 323 mm ; Maximum: 453 x 839 x 577 mm (printer fully opened)
Package dimensions (W x D x H)	497 x 398 x 490 mm
Printer weight	13.01 kg
Package weight	14.7 kg
Operating environment	Temperature: 15 to 32.5°C Humidity: 30 to 70% RH
Storage conditions	Temperature: -20 to 40°C
Acoustics	Acoustic power emissions: 6.4 B(A) @ 38 ipm Acoustic pressure emissions: 54 dB(A) @ 38 ipm
Power	Requirements: 110-volt input voltage: 110 to 127 VAC (+/- 10%), 60 Hz (+/- 3 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60Hz (+/- 3 Hz) (Not dual voltage, power supply varies by part number with # Option code identifier); Consumption: 525 watts (active printing), 10.1 watts (ready), 1.2 watts (sleep), 0.08 watts (auto-off/manual-on), 0.08 watts (manual off) ; Power supply type: Internal (Built-in) power supply
Certifications	CISPR 22:2008 (International) Class A, CISPR 32:2012 (International)/ EN 55032:2012, CISPR 20:2016 (International)/ EN 55035:2017, EN 55024:2010 +A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, FCC CFR 47 Part 15 Class A, ICES-003, Issue 6 Class A. Other EMC approvals as required by individual countries. CECP Blue Angel compliant: No, please refer to the ECI (Ecolabel Comparison Information) document
Sustainable impact specifications	Mercury-free
Country of origin	Made in China
Control panel	diagonal Color TFT-LCD back-lit 480 RGB (H) x 272 (V)
Supplies, After market or Supplies, replacement	4WN07A HP Multipurpose Recycled Paper-500 sht/Letter/8.5 x 11 in 4WN08A HP Everyday Business Paper, Glossy, 32 lb, 8.5 x 11 in. (216 x 279 mm), 150 sheets 7MV81A HP Multipurpose Recycled Paper-500 sht/Letter/8.5 x 11 in 7MV82A HP Multipurpose Recycled Paper-500 sht/Letter/8.5 x 11 in CF277A HP 77A Black Original LaserJet Toner Cartridge (~3,100 pages) CF277X HP 77X High Yield Black Original LaserJet Toner Cartridge (~9,800 pages)
Service and Support	U11D7E - HP 3y NBD LJ Ent MFP M43x SVC U11D8E - HP 4y NBD LJ Ent MFP M43x SVC U11D9E - HP 5y NBD LJ Ent MFP M43x SVC U11D8E - HP 3y 4h 9x5 LJ Ent MFP M43x SVC U11DCE - HP 4y 4h 9x5 LJ Ent MFP M43x SVC U11DDE - HP 5y 4h 9x5 LJ Ent MFP M43x SVC U11DFE - HP 3y 4h 13x5 LJ Ent MFP M43x SVC U11DGE - HP 4y 4h 13x5 LJ Ent MFP M43x SVC U11DHE - HP 5y 4h 13x5 LJ Ent MFP M43x SVC U11DJE - HP 3y NBDOnsiteExch LJ Ent MFP M43x SVC U11DKE - HP 4y NBDOnsiteExch LJ Ent MFP M43x SVC U11DLE - HP 5y NBDOnsiteExch LJ Ent MFP M43x SVC U11DME - HP 3y ChnlPartsOnly LJ Ent MFP M43x SVC U11DNE - HP 4y ChnlPartsOnly LJ Ent MFP M43x SVC U11DQE - HP 5y ChnlPartsOnly LJ Ent MFP M43x SVC U11DRPE - HP 1y PW NBD LJ Ent MFP M43x SVC U11DSPE - HP 2y PW NBD LJ Ent MFP M43x SVC U11DTPE - HP 1y PW 4h 9x5 LJ Ent MFP M43x SVC U11DWPE - HP 2y PW 4h 9x5 LJ Ent MFP M43x SVC U11DWPE - HP 1y PW 4h 13x5 LJ Ent MFP M43x SVC U11DXPE - HP 2y PW 4h 13x5 LJ Ent MFP M43x SVC U11DYPE - HP 1yPW NBDOnsiteExch LJ Ent MFP M43x SVC U11DZPE - HP 1yPWChnlPartsOnly LJ Ent MFP M43x SVC U11E0PE - HP 2yPWChnlPartsOnly LJ Ent MFP M43x SVC U9JT3E - HP Inst SVC w/lw Department Printer
Warranty	One-year, On-site Repair 24-hour / 7 day a week phone support

¹ For yield information on the cartridge included with your printer, see <http://www.hp.com/go/toneryield>. Yield values measured in accordance with ISO/IEC 19752 and continuous printing. Actual yields vary considerably based on images printed and other factors. ² Declared yields based on ISO/IEC 19752 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/toneryield> ³ Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit: <http://www.hp.com/go/learnaboutsupplies> 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 Memory not expandable ⁶ Measured using ISO/IEC 24734 Feature Performance Test, 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 Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity. ⁸ First Copy Out from Ready and Simplex Copy Speed measured using ISO/IEC 29183, Duplex Copy Speed measured using ISO/IEC 24735, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, document complexity, media size, media orientation and media type. HP High Speed may require FW upgrade to enable. 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 Scan to Onedrive, scan to Onedrive for Business, and scan to Sharepoint Online requires HP FutureSmart 5.8 or later. ¹² Requires HP FutureSmart 5.8.1.1 or later.