Datasheet | NA

HP LaserJet Enterprise X50452 Printer series

The powerful A4 enterprise printer for small teams

Simplify document workflows with blazing-fast speeds and customizable features. Seamlessly integrates with your existing fleet, scales for the future, and delivers industry-leading security to safeguard your data.

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

HP LaserJet Enterprise X50452 Printer series

Get the power to be more productive

- Save time with fast printer wake-up and print speeds up to 52 ppm to power through your tasks.[2]
- Stay ahead with FutureSmart firmware updates, keeping your fleet always up to date.[3]
- Customize workflows your way with printer and software configurations for your unique needs.
- Work without interruptions—smart services monitor devices in real time and fix issues before disrupting flow.[4]

Simplify work with automated workflows

- Wherever you are in your digital transformation, find the perfect fit—on-premises or cloud, tailored to you.
- Easily integrate your device into your fleet and workflows with seamless compatibility.

Protect what matters with the most secure printer[1]

- Keep your work protected—HP Wolf silently detects and repairs your printer from cyberattacks.[1]
- Simplify compliance—HP Security Manager enforces policies automatically, so you're always audit-ready.[5]
- Grant access only to verified users and devices with HP's Zero Trust Print Architecture.[6]
- Get peace of mind with future-ready security — the world's first printers protected against quantum attacks.[7]

Save energy and help reduce waste

- Reduce costs and environmental impact with printers and toner cartridges that use less energy.[8]
- Meet the rigorous criteria of EPEAT Gold, Energy Star, and Blue Angel with our energy efficient designs.[9]
- Help reduce plastic waste with TerraJet Toner Cartridges designed with recycled plastics.[10]
- Easily recycle your used HP TerraJet Toner Cartridges for free through the HP Planet Partners Program.[11]

[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 published features as of June 2025 of competitive in-class printers. Only HP offers a combination of security features to automatically detect, isolate, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. Printers are most vulnerable to attack when they are booting up and during runtime (when the printer is in sleep mode and in use). Only HP Enterprise printers protect the device during 100% of the printer's life with Sure Start BIOS protection, Memory Shield with hardware-based Runtime Intrusion Detection and Control Flow Integrity to detect and recover from zero-day threats in addition to Connection Inspector network behavioral anomaly detection all with self-healing recovery. For a list of compatible products, visit hp.com/go/PrintersThatProtect For more information, visit hp.com/go/PrinterSecurityClaims. [2] 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. [3] 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. [4]HP Smart Device Services (SDS) is supported on both A3 and A4 LaserJet devices, requires Original HP supplies to be installed in the device, and supports Managed, Enterprise, and Pro-class HP devices dating back to 2008. Capabilities vary based on the age of the legacy device and Pro-class capabilities. For details, see: https://hpsdsdevicesupport.com [5]HP Security Manager must be purchased separately. For details, see hp.com/go/securitymanager. [6] Delivered through implementation of HP Authentication Suite for Workpath-enabled devices and devices with embedded Protected Access both providing passwordless multifactor authentication for Microsoft Entra ID environments. Device identity provided by deployment of device certificates using HP Security Manager software, sold separately. [7] Based on HP's internal analysis of business Printers with preinstalled encryption, authentication, malware protection, post-quantum digital signature, and initial BIOS firmware integrity protection with automatic self-healing recovery finding that no other in-class Printers implement a quantum-resistant cryptographic scheme to protect the integrity of the BIOS and firmware as of March 2025. [8] Energy reduction in HP LaserJet Enterprise X50352-X50452 and X52952-X53052 with HP Original 159 TerraJet Toner Cartridges compared to predecessor HP LaserJet Enterprise E50145 and E52645 with HP Original 89 Toner Cartridges. Calculated in 2026 based on normalized Energy Star® Typical Electricity Consumption (TEC) data. See hp.com/TerraJet/energysaving for more information. [9] HP voluntarily designs and tests its printing systems to prevent emissions that exceed Blue Angel and EPEAT eco-label guidelines. Based on US, Canada, India, and Australia EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.energystar.gov/productfinder for more information on models of the HP LaserJet Enterprise X50352-X50452/MFP X52952-X53052 series that are ENERGY STAR certified in North America. ENERGY STAR and the ENERGY STAR logo are registered U.S. marks. HP printer, HP paper and Original HP supply - Blue Angel DE-UZ 219 Emissions Criteria. [10] Recycled plastic in Original HP 159 and 160 TerraJet Toner Cartridges measured in 2026 and expressed as a percentage of total weight of plastic. See hp.com/TerraJet/plasticreductions for more information. [11] Program availability varies. For more information, visit hp.com/hprecycle.

Product walkaround

1. 4.3-inch color touchscreen display (10.9cm)
2. Automatic 2-sided printing
3. 100-sheet multipurpose tray 1 supports media sizes up to Legal (8.5x14 inch)
4. 550-sheet tray 2 supports media sizes up to Legal (8.5x14 inch)
5. Hardware Integration Pocket (for connecting accessories and third-party devices)[1]

Series at a glance

Model	HP LaserJet Enterprise X50452 Printer series
Product Number	675R8A
Functions	Print
Print speed (up to)[2]	52/50 ppm (Letter/A4)
Auto 2-sided printing	Yes
Connectivity	USB, Ethernet
Control panel	4.3" Color Touchscreen
Input capacity	650/2,300 (std/max)
Memory and Storage[5]	4GB RAM, 32GB eMMC
RMPV[4]	10,000 to 25,000
Workpath enabled	Yes
Extensibility	HP FutureSmart[3], OXPd

[1] Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase.
[2] 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.
[3] 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.
[4] HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period. The range shown is based on 60 months of output for the lower monthly value and 24 months of output for the higher monthly value.
[5] Optional storage options are available depending on configuration. Please contact your Market Category Manager for details.

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

Top features

Maximize productivity with blazing-fast speeds, customizable features and FutureSmart firmware upgrades.

Work smarter with tailored print solutions and seamless fleet integration.

The world's most secure printing technology—protect your data, workflows, and business at every level.[1]

Reduce costs and environmental impact with our energy-efficient design.

Accessories

2TD64A	HP Accessibility Kit
478C2A	HP Printing Voice Assistant
4XN67A	Internal USB Expansion Kit
6C7M6A	HP LaserJet 550-sheet Paper Tray
6W661A	HP LaserJet X50352/X50452 Constellation Yellow Color Panel Kit
6W662A	HP LaserJet X50352/X50452 Cosmic Green Color Panel Kit
6W663A	HP LaserJet X50352/X50452 Aurora Purple Color Panel Kit
6W664A	HP LaserJet X50352/X50452 Comet Red Color Panel Kit
6W665A	HP LaserJet X50352/X50452 Lunar Gray Color Panel Kit
6W681A	HP 550 sheet Paper Tray Constellation Yellow Panel Kit
6W682A	HP 550 Sheet Paper Tray Cosmic Green Panel Kit
6W683A	HP 550 Sheet Paper Tray Aurora Purple Panel Kit
6W684A	HP 550 Sheet Paper Tray Comet Red Panel Kit
6W685A	HP 550 Sheet Paper Tray Lunar Gray Panel Kit
6W686A	HP Storage Stand Constellation Yellow Panel Kit
6W687A	HP Storage Stand Cosmic Green Panel Kit
6W688A	HP Storage Stand Aurora Purple Panel Kit
6W689A	HP Storage Stand Comet Red Panel Kit
6W690A	HP Storage Stand Lunar Gray Panel Kit
766R7A	HP LaserJet 512 GB SED-TAA Solid State Drive
8FP31A	HP Jetdirect LAN Accessory
9R1U0A	HP JetDirect 3200w Wifi 6 Bluetooth Wireless Accessory
B01KLA	HP LaserJet 3x550 Sheet Paper Tray with Stand
B01KMA	HP LaserJet Lunar Gray 3x550 Sheet Paper Tray with Stand
B01KNA	HP LaserJet Comet Red 3x550 Sheet Paper Tray with Stand
B01KPA	HP LaserJet Cosmic Green 3x550 Sheet Paper Tray with Stand
B01KQA	HP LaserJet Aurora Purple 3x550 Sheet Paper Tray with Stand
B01KRA	HP LaserJet Constellation Yellow 3x550 Sheet Paper Tray with Stand
B01KSA	HP LaserJet Envelope Feeder Kit
B01KTA	HP LaserJet 550 Sheet Paper Tray with Storage Stand
B01KVA	HP LaserJet Lunar Gray 550 Sheet Paper Tray with Storage Stand
B01KWA	HP LaserJet Comet Red 550 Sheet PaperTray Storage Stand
B01KXA	HP LaserJet Cosmic Green 550 Sheet Paper Tray with Storage Stand
B01KYA	HP LaserJet Aurora Purple 550 Sheet Paper Tray with Storage Stand
B01KZA	HP LaserJet Constellation Yellow 550 Sheet Paper Tray with Storage Stand
B18J0A	HP LaserJet 512GB 2.5 inch SATA CCC/FIPS/TAA Solid State Drive
B18J1A	HP LaserJet 512GB M.2 2280 NVMe CCC/FIPS/TAA Solid State Drive
B5L31A	HP Foreign Interface Harness
B8GR1A	HP LaserJet 550 Sheet Paper Constellation Yellow Tray
B8GR2A	HP LaserJet 550 sheet Paper Cosmic Green Tray
B8GR3A	HP LaserJet 550 sheet Paper Aurora Purple Tray
B8GR4A	HP LaserJet 550 sheet Paper Comet Red Tray
B8GR5A	HP LaserJet 550 sheet Paper Lunar Gray Tray
CC543B	HP SmartCard NIPRNet Solution for US Government
F8B30A	HP SmartCard SIPRNet Solution for US Government
X3D03B	HP USB Universal Card Reader
Y7C05B	HP HIP2 Keystroke Reader
35H11B	HP HID Mob Acc Mifare DES Fire ks Reader
4QL32A	HP Legic Secure USB Reader

Supplies

W9087MC	HP W9087MC Black Managed LaserJet Toner Cartridge

Solutions

Overview: The HP Solutions portfolio provides a broad array of solutions designed to work with many HP printers and MFPs. They can help improve productivity, safeguard your data, and drive down costs. Helping employees and your IT team work more efficiently.

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

Mobile and universal print: HP Universal Print Driver (UPD); HP For Universal Print Workpath App; Microsoft Universal Print (MUP) support

Management: Embedded Web Server; HP Advance; HP Command Center; HP Insights; HP Security Manager; HP Smart Device Services (SDS); HP Smart Printer Administrator's Resource Kit; Premium Fleet & Security Management on WXP-Print

Services

UN9J1E	HP 3 year Next Business Day Onsite with DMR Service for LaserJet Enterprise X50352 50452
UN9J5E	HP 3 year 4 hour Onsite with DMR Service for LaserJet Enterprise X50352 50452
UN9J9E	HP 3 year Parts Exchange with DMR Service for LaserJet Enterprise X50352 50452
UN9J4PE	HP 1 year Post Warranty NBD Onsite with DMR Service for LaserJet Enterprise X50352 50452
UN9J8PE	HP 1 year Post Warranty 4 hour Onsite with DMR Service for LaserJet Enterprise X50352 50452

[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 published features as of June 2025 of competitive in-class printers. Only HP offers a combination of security features to automatically detect, isolate, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. Printers are most vulnerable to attack when they are booting up and during runtime (when the printer is in sleep mode and in use). Only HP Enterprise printers protect the device during 100% of the printer's life with Sure Start BIOS protection, Memory Shield with hardware-based Runtime Intrusion Detection and Control Flow Integrity to detect and recover from zero-day threats in addition to Connection Inspector network behavioral anomaly detection all with self-healing recovery. For a list of compatible products, visit hp.com/go/PrintersThatProtect For more information, visit hp.com/go/PrinterSecurityClaims.

HP LaserJet Enterprise X50452 Printer series

Model	**HP LaserJet Enterprise X50452 Printer series**
Product number	675R8A
AIO functions	Print
Print	
Print speed [7] [5] [6]	**First page out Letter:** As fast as 4.0 sec Black; **First page out A4:** As fast as 4.1 sec Black; **Letter:** Up to 52 ppm Black; **A4:** Up to 50 ppm Black; **2-sided Letter:** Up to 43 ipm Black; **2-sided A4:** Up to 41 ipm Black; **Print speed (Landscape, A5):** Up to 76 ppm Black
Print resolution	**Black (best)** Up to 1200 x 1200 dpi; **Black (normal)** Up to 600 x 600 dpi; **Black (fine lines)** Up to 1200 x 1200 dpi
Print technology	Laser; **Print resolution technology:** Normal (600 x 600 dpi with FastRes), Fine Lines (1200 x 1200 dpi), Quickview (300 x 300 dpi)
Print cartridges number	1 (black)
Standard print languages	HP PCL 6, HP PostScript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
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
Printer management	HP Printer Assistant; HP Device Toolbox; HP Web JetAdmin Software; HP Security Manager; Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator)
Connectivity	
Standard connectivity	1 SuperSpeed USB 3.0 (device); 1 SuperSpeed USB 3.0 (host); 1 Hi-Speed USB 2.0 (host); 1 Gigabit Ethernet 10/100/1000 Base-T network; 1 Hardware Integration Pocket 2nd generation (HIP2)
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); WiFi 2.4/5 GHz wireless networking (optional); Second Ethernet port (optional); Microsoft Universal Print (MUP) support
Wireless capability	Optional, with wireless hardware accessory. Dual band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3200w WiFi 6 Bluetooth Wireless Accessory 9R1U0A.
Mobile printing capability	Apple AirPrint™; Mopria™ certified
Memory	**Standard:** 4 GB; **Maximum:** 4 GB
Processor speed	1.4 GHz
Storage[3]	**Standard:** Min 32 GB eMMC; Max 512 GB SSD
Duty cycle (monthly)[8]	**Letter:** Up to 275,000 pages; **A4:** Up to 275,000 pages; **Recommended monthly page volume**[9]**:** 10,000 to 25,000
Paper handling	
Input	**Standard:** 100-sheet multipurpose feeder, 550-sheet input feeder; Up to 650 sheets ; Up to 10; **Maximum:** Up to 2300 sheets
Output	Up to 250 sheets Standard; Up to 30 envelopes; **Transparencies:** Up to 100 sheets; **Maximum:** Up to 250 sheets
Duplex Options	Automatic (standard)
Envelope feeder	Yes, 50 (optional) [15]
Standard paper trays	**Standard:** 2; **Maximum:** 5 [16]
Media types	Paper (bond, color, letterhead, plain, preprinted, prepunched, recycled, rough); envelopes; labels; cardstock; transparencies; user-defined
Media weight	Feeder 1: 16 to 53 lb bond (plain), 16 to 24 lb (envelopes); Feeder 2: 16 to 32 lb bond (plain); Automatic Duplexer: 16 to 32 lb; Feeder 1: 60 to 200 g/m²; Feeder 2: 60 to 120 g/m²; Automatic Duplexer: 60 to 120 g/m²
Media sizes	Tray 1: letter, legal, executive, statement, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, 8.5 x 13 in, envelopes (No. 9, No. 10, Monarch); Tray 2: letter, legal, executive, statement, 5 x 7 in, 5 x 8 in, 8.5 x 13 in; Optional 550-sheet tray: letter, legal, executive, statement, 5 x 7 in, 5 x 8 in, 8.5 x 13 in; Automatic Duplexer: letter, legal, executive, 8.5 x 13 in; Envelope Feeder Accessory: No. 9, No. 10, Monarch; Tray 1: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340), 16K, postcards (JIS single and double), envelopes (B5, C5, C6, DL); Tray 2: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), Oficio (216 x 340), 16K, postcards (JIS double); Optional 550-sheet Tray: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), Oficio (216 x 340), 16K, postcards (JIS double); Automatic Duplexer: A4, A5, RA4, B5, 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm), Oficio; Envelope Feeder Accessory: B5, C5, C6, DL
Media Sizes Custom	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2: 4.14 x 5.83 to 8.5 x 14 in; Optional 550-sheet Tray: 4.14 x 5.83 to 8.5 x 14 in; Envelope Feeder Accessory: 3.86 x 6.38 to 7 x 10 in; Tray 1: 76.2 x 127 to 216 x 356 mm; Tray 2: 105 x 148 to 216 x 356 mm; Optional 550-sheet Tray: 105 x 148 to 216 x 356 mm; Envelope Feeder Accessory: 98 x 162 to 178 x 254 mm
Dimensions (W x D x H)	15.7 x 15.7 x 11.6 in; 400 x 400 x 295 mm; **Maximum:** 15.7 x 28.5 x 14.0 in (control panel fully upright, rear jam access door open, front cartridge door open, all feeders open and extended); 400 x 725 x 355 mm (control panel fully upright, rear jam access door open, front cartridge door open, all feeders open and extended)
Weight[4]	~26.4 lb; ~11.9 kg
What's in the box	HP LaserJet Enterprise X50452dn Printer; HP Original LaserJet Introductory Toner Cartridge (~6,000 pages); Regulatory flyer; Unpack flyer; Installation Guide; Power cord; Warranty Cards; Support flyers/ phone number list
Page yield (set-up/inbox cartridges)	~6,000 pages black
Replacement cartridges[13]	HP Black Managed LaserJet Toner Cartridge (~30,000 pages) W9087MC
Orderable supplies	HP LaserJet Transfer Roller Kit C35T5A; HP LaserJet Tray 2 Roller Kit C35T6A
Warranty features	One-year, onsite warranty service. Warranty and support options vary by product, country and local legal requirements. Contact your Contractual Vendor or go to hp.com/support to learn about HP award winning service and support options in your region.
Energy star certified	Yes
Ecolabels[2]	CECP; IT ECO Declaration; Blue Angel; EPEAT® Gold India; EPEAT® Gold Australia; EPEAT® Gold Canada; EPEAT® Gold US; SEPA; KOECO; ENERGY STAR® certified; Korea MEPS; Vietnam MEPS
Sustainable impact specifications	Mercury free; Recyclable through HP Planet Partners; Contains at least 5% post-consumer recycled plastic
Control panel	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display
Display	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen
Software included	No software solutions are included in the Box only on http://support.hp.com
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 World Type);2 Internal Windows Vista 8 Fonts (Calibri, Cambria);additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation information available in the user guide and documentation for this printer model at http://www.hp.com/support.
Compatible operating systems[14]	Windows 11 (64-bit and ARM64); Windows 10 (32-bit, 64-bit and ARM64); Android; iOS; macOS 14 Sonoma; macOS 15 Sequoia; macOS Tahoe v26; Linux: Debian 10; Linux: Debian 11; Linux: Elementary 6P; Linux: Fedora 31; Linux: Fedora 32; Linux: Fedora 33; Linux: Fedora 34; Linux: Fedora 35; Linux: Linuxmint 20.1; Linux: Linuxmint 20.2; Linux: Manjarolinux 20.2; Linux: Manjarolinux 21.0.7; Linux: Mxlinux 21; Linux: OpenSuse 15.1; Linux: OpenSuse 15.2; Linux: OpenSuse 15.3; Linux: Rhel 6; Linux: Rhel 7; Linux: Rhel 8; Linux: Ubuntu 20.04; Linux: Ubuntu 20.10; Linux: Ubuntu 21.04; Linux: Ubuntu 21.10; Linux: Zorin 15; Linux: Zorin 16; Chrome OS; SAP
Compatible network operating systems	Windows Server 2016 64-bit; Windows Server 2019 64-bit; Windows Server 2022 64-bit; Windows Server 2025 64-bit; Citrix; SAP
Power [11] [12]	**Power supply type:** Built-in 3-Pin 115V or 220V Internal Power Supply; **Power supply required:** Input Voltage: 100 V - 127 V AC, 50 - 60 Hz, 8.8 A; or Input Voltage: 220 V - 240 V AC, 50 - 60 Hz, 4.6 A; **Power consumption**[10]**:** 552.4 watts (Printing), 4.89 watts (Ready), 0.76 watts (Sleep), 0.02 watts (Auto-Off), 0.02 watts (Off); **Typical electricity consumption (TEC) number:** 0.419 kWh/Week (Blue Angel); 0.400 kWh/Week (ENERGY STAR 3.0)
Acoustics[1]	**Acoustic power emissions:** 7.0 B(A)
Operating environment	**Operating temperature range:** 59 to 90.5°F ; 15 to 32.5°C **Recommended operating temperature:** 63.5 to 77°F ; 17.5 to 25°C **Storage temperature range:**-4 to 104°F ; -20 to 40°C **Operating humidity range:** 10 to 80% RH **Recommended operating humidity range:** 30 to 70% RH
Security management	Identity management: Role Based Access Control (RBAC) Walk-up and Remote Access; Admin PW Protected EWS and Remote Access, Self-signed Certificate; Encrypted passwords; Personal on-device user accounts; Account Lockout (time-based); Kerberos AuthN; LDAP authentication; 1000 user PIN codes; Optional HP and 3rd party passwordless, MFA solutions (e.g.; badge readers, HP Authentication Suite with Workpath); Protected Access (embedded) end user passwordless MFA for Microsoft® Entra ID; Proximity card reader, single sign-on, smart card, CAC support. Network protection: IPsec/firewall with Certificate; Elliptic Curve Cryptography (ECC, EC-based certificates); Pre-Shared Key; Kerberos AuthN; Web Jetadmin fleet proxy; 802.1X (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS with Server Certificate Validation; Certificate Provisioning and CA support; Access Control List. Data privacy and protection: Storage Encryption; Encrypted PDF & Email (uses FIPS 140 validated crypto libraries from Microsoft®); Secure Erase with job storage (3x overwrite for HDD, cryptographic erase for SDD); SSL/TLS 1.2, TLS 1.3 support (HTTPS; Encrypted Credentials; Secure encrypted print support via UPD; AI-enabled Guided Redaction data security (select models). Device protection: Continuous malware monitoring; HP SureStart with Quantum Resistant BIOS firmware Integrity checking, PQC protection, and self-healing recovery; Allowlisting code validation (DLLs, EXEs, etc.) at time of use; Memory Shield hardware-enforced Runtime Intrusion Detection and Control Flow Integrity with self-healing recovery; AI-powered Connection Inspector network behavior anomaly detection with self-healing recovery; Trusted Platform Module 2.0; Configurable Service PIN; EU RED, UK PSTI, Australia Cybersecurity Act 2024 compliant; Embedded VPN (select HP Enterprise models); HP LaserJet Workflow Accelerator Card support (select HP Enterprise models); Wi-Fi security; WPA Enterprise; Security lock slot; USB host port disablement; Hardware integration pocket (HIP). Testing, Validation, Governance, and Compliance: FIPS 140-2, 140-3, Common Criteria Certification; HP Workpath support (select models); NIST security checklist; Supply Chain Security ISO/IEC 20243 Certifications. Fleet security management: HP Security Manager policy and device certificate management, fleet firmware vulnerability assessment; Compatible with Device Security Syslog Messages processed and accessible in SIEM tools; HP Workforce Experience Platform Support (select models); Original HP Enterprise Cartridge Security.
Country of origin	Made in Vietnam

[1] Active Printing measured on worse case bundle/mode, printing A4 simplex at 50 ppm. [2] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country. ENERGY STAR and the ENERGY STAR logo are registered U.S. marks. [3] Optional storage up to 512 GB SSD [4] With print cartridges [5] 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. [6] 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. [7] Device first page out time based on HP internal measurement of printer activation until page exit. Meaurement based on industry-standard ISO/IEC 17629 can be found at http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity. [8] 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. [9] HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period. The range shown is based on 60 months of output for the lower monthly value and 24 months of output for the higher monthly value. [10] Power consumption values based on measurement of 115 V device. 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. [11] Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh). [12] 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 115 V device and 230V for Blue Angel. [13] Average black 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/learnaboutsupplies . [14] Citrix Server versions updates release every quarter, for updates see https://www.citrix.com/en-in/downloads/citrix-virtual-apps-and-desktops/; Citrix XenApp & XenDesktop versions updates release every quarter, for updates see https://www.citrix.com/en-in/downloads/citrix-virtual-apps-and-desktops/; Citrix Ready Kit Certification - see http://citrixready.citrix.com for the latest qualification for HP Printers; [15] Envelope feeder available as an accessory kit and requires that an additional Tray must be present in the Tray 3 position. Additional trays can be ordered as accessories to suit your requirements. [16] The printer can support up to 2 additional trays for desktop use and up to 3 additional trays for floor standing. Floor standing configurations must be built up from one of the two floor standing accessories - 3 x 550 Sheet Paper Tray with Stand, or 1 x 550 Sheet Paper Tray with Storage Stand.

To learn more, visit hp.com

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