



# HP LaserJet Enterprise MFP X52952dn Printer

## Powerful A4 enterprise printers for workgroups

Built to simplify document workflows and support high-volume printing with fast speeds, customizable features, and built-in HP AI digitization. Seamlessly integrates with your fleet, is future-ready, and delivers the world's most secure printing.<sup>1</sup>



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>

### Highlights

- 10.9 cm Color touchscreen
- 650-sheet standard input
- 2,300-sheet max input
- Energy Star® Certified
- Blue Angel Certified

### Get the power to tackle anything

Save time with fast printer wake-up and print speeds up to 52 ppm to power through your tasks.<sup>2</sup>

Stay ahead with FutureSmart firmware updates, keeping your fleet always up to date.<sup>3</sup>

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.<sup>4</sup>

### 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<sup>1</sup>

Keep your work protected—HP Wolf silently detects and repairs your printer from cyberattacks.<sup>1</sup>

Simplify compliance—HP Security Manager enforces policies automatically, so you're always audit-ready.<sup>5</sup>

Protect your network with the world's first quantum-resistant business printers—built for tomorrow's threats.<sup>7</sup>

### Save energy and help reduce waste

Reduce costs and environmental impact with printers and toner cartridges that use less energy.<sup>8</sup>

Meet the rigorous criteria of EPEAT Gold, Energy Star, and Blue Angel with our energy efficient designs.<sup>9</sup>

Help reduce plastic waste with TerraJet Toner Cartridges designed with recycled plastics.<sup>10</sup>

Easily recycle your used HP TerraJet Toner Cartridges for free through the HP Planet Partners Program.<sup>11</sup>

## Product walkaround

HP LaserJet Enterprise X52952dn shown

1. 50-sheet dual side ADF supports media sizes up to Legal (21.6 x 35.6 cm)
2. Hardware Integration Pocket (for connecting accessories and third-party devices)<sup>1</sup>
3. 550-sheet tray 2 supports media sizes up to Legal (21.6 x 35.6 cm)
4. 100-sheet multipurpose tray 1 supports media sizes up to Legal (21.6 x 35.6 cm)
5. Automatic 2-sided printing
6. 4.3-inch color touchscreen display (10.9cm)



## Accessories, Supplies and Support

<b>Supplies</b>	<b>W9187MC</b> HP W9187MC Black Managed LaserJet Toner Cartridge (Average cartridge yields 28,000 standard pages. Declared yield value in accordance with ISO/IEC 19752.)
<b>Accessories</b>	<b>1M0Q0A</b> HP MFP Analog Fax 702 Accessory
	<b>2NR12A</b> HP LaserJet 512 GB SED-TAA Full Kit SSD
	<b>2TD64A</b> HP Accessibility Kit
	<b>478C2A</b> HP Printing Voice Assistant
	<b>4XN67A</b> Internal USB Expansion Kit
	<b>6C7M6A</b> HP LaserJet 550-sheet Paper Tray
	<b>6W681A</b> HP 550 sheet Paper Tray Constellation Yellow Panel Kit
	<b>6W682A</b> HP 550 Sheet Paper Tray Cosmic Green Panel Kit
	<b>6W683A</b> HP 550 Sheet Paper Tray Aurora Purple Panel Kit
	<b>6W684A</b> HP 550 Sheet Paper Tray Comet Red Panel Kit
	<b>6W685A</b> HP 550 Sheet Paper Tray Lunar Gray Panel Kit
	<b>6W686A</b> HP Storage Stand Constellation Yellow Panel Kit
	<b>6W687A</b> HP Storage Stand Cosmic Green Panel Kit
	<b>6W688A</b> HP Storage Stand Aurora Purple Panel Kit
	<b>6W689A</b> HP Storage Stand Comet Red Panel Kit
	<b>6W690A</b> HP Storage Stand Lunar Gray Panel Kit
	<b>766R7A</b> HP LaserJet 512GB M.2 2280 NVMe CCC/FIPS/TAA Solid State Drive
	<b>8FP31A</b> HP JetDirect LAN Accessory
	<b>9R1U0A</b> HP JetDirect 3200w Wifi 6 Bluetooth Wireless Accessory
	<b>A59CVA</b> HP LaserJet X52952 Constellation Yellow Color Panel Kit
	<b>A59CWA</b> HP LaserJet X52952 Cosmic Green Color Panel Kit
	<b>A59CXA</b> HP LaserJet X52952 Aurora Purple Color Panel Kit
	<b>A59CYA</b> HP LaserJet X52952 Comet Red Color Panel Kit
	<b>A59CZA</b> HP LaserJet X52952 Lunar Gray Color Panel Kit
	<b>B01KLA</b> HP LaserJet 3x550 Sheet Paper Tray with Stand
	<b>B01KMA</b> HP LaserJet Lunar Gray 3x550 Sheet Paper Tray with Stand
	<b>B01KNA</b> HP LaserJet Comet Red 3x550 Sheet Paper Tray with Stand
	<b>B01KPA</b> HP LaserJet Cosmic Green 3x550 Sheet Paper Tray with Stand
	<b>B01KQA</b> HP LaserJet Aurora Purple 3x550 Sheet Paper Tray with Stand
	<b>B01KRA</b> HP LaserJet Constellation Yellow 3x550 Sheet Paper Tray with Stand
	<b>B01KSA</b> HP LaserJet Envelope Feeder Kit
	<b>B01KTA</b> HP LaserJet 550 Sheet Paper Tray with Storage Stand
	<b>B01KVA</b> HP LaserJet Lunar Gray 550 Sheet Paper Tray with Storage Stand
	<b>B01KXA</b> HP LaserJet Cosmic Green 550 Sheet Paper Tray with Storage Stand
	<b>B01KYA</b> HP LaserJet Aurora Purple 550 Sheet Paper Tray with Storage Stand
	<b>B01KZA</b> HP LaserJet Constellation Yellow 550 Sheet Paper Tray with Storage Stand
	<b>B18JTA</b> HP LaserJet 512GB M.2 2280 NVMe CCC/FIPS/TAA Solid State Drive
	<b>B5L31A</b> HP Foreign Interface Harness
	<b>B8GR1A</b> HP LaserJet 550 Sheet Paper Constellation Yellow Tray
	<b>B8GR2A</b> HP LaserJet 550 sheet Paper Cosmic Green Tray
	<b>B8GR3A</b> HP LaserJet 550 sheet Paper Aurora Purple Tray
	<b>B8GR4A</b> HP LaserJet 550 sheet Paper Comet Red Tray
	<b>B8GR5A</b> HP LaserJet 550 sheet Paper Lunar Gray Tray
	<b>BK556AAE</b> HP Editable OCR A4
	<b>Service and Support</b>
<b>JN9M8E</b> -HP 4 year Next Business Day Onsite with DMR Service for LaserJet Enterprise MFP X52952	
<b>JN9M9E</b> -HP 5 year Next Business Day Onsite with DMR Service for LaserJet Enterprise MFP X52952	
<b>JN9N0PE</b> -HP 1 year Post Warranty NBD Onsite with DMR Service for LaserJet Enterprise MFP X52952	
<b>JN9N5E</b> -HP 3 year Parts Exchange with DMR Service for LaserJet Enterprise MFP X52952	
<b>JN9N6E</b> -HP 4 year Parts Exchange with DMR Service for LaserJet Enterprise MFP X52952	
<b>JN9N7E</b> -HP 5 year Parts Exchange with DMR Service for LaserJet Enterprise MFP X52952	
<b>JN9N8PE</b> -HP 1 year Post Warranty Parts Exchange with DMR Service for LaserJet Enterprise MFP X52952	
<b>U67T2E</b> -HP Print Carbon Emissions Sync Service for A4 Products only	
<b>U9JT2E</b> -HP Installation Service with network configuration for Workgroup Printer(1 unit)	

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

## Technical specifications

<b>Model</b>	HP LaserJet Enterprise MFP X52952dn Printer
<b>Product number</b>	A2928A
<b>Functions</b>	Print, copy, scan and optional fax
<b>Control panel</b>	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display
<b>Print</b>	
Print technology	Laser
Print speed <sup>13,14</sup>	<b>Black (A4, normal):</b> Up to 50 ppm; <b>Black (A4, duplex):</b> Up to 41 ipm; <b>Print speed black (Landscape, A5):</b> Up to 76 ppm
First page out <sup>18</sup>	<b>Black (A4, ready):</b> As fast as 4.1 sec; <b>Black (A4, sleep):</b> As fast as 8.4 sec
Print resolution	<b>Black (best):</b> Up to 1200 x 1200 dpi; <b>Technology:</b> Normal (600 x 600 dpi with FastRes), Fine Lines (1200 x 1200 dpi), Quickview (300 x 300 dpi)
Monthly duty cycle <sup>15</sup>	Up to 225,000 pages A4; <b>Recommended monthly page volume</b> <sup>16</sup> : 7,500 to 18,750
Printer smart software features	Apple AirPrint™, Mopria-certified, Open Extensibility Platform, FutureSmart Firmware, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, Hardware Integration Pocket, 4.3 in touchscreen control panel, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, print preview
Standard print languages	HP PCL 6, 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 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 <a href="http://www.hp.com/support">http://www.hp.com/support</a>
Print area	<b>Print margins:</b> Top: 4.23 mm, Bottom: 4.23 mm, Left: 4.23 mm, Right: 4.23 mm; Maximum print area: 212 x 352 mm
Duplex printing	Automatic (standard)
<b>Copy</b>	
Copy speed <sup>9</sup>	<b>Black (A4):</b> Up to 50 ppm
Copier specifications	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); <b>Maximum number of copies:</b> Up to 9999 copies; <b>Reduce/Enlarge:</b> 25 to 400%
<b>Scan</b>	
Scan speed <sup>4</sup>	<b>Normal (A4):</b> Up to 38 ppm/76 ipm (b&w), up to 31 ppm/62 ipm (color); <b>Duplex (A4):</b> Up to 76 ipm (b&w), up to 62 ipm (color)
Scan file format <sup>5</sup>	JPEG; TIFF; MTIF; XPS; PDF; PDF/A; High-Compression PDF; High-Compression PDF/A; Searchable PDF/A (OCR); Searchable PDF (OCR); High-Compression Searchable PDF (OCR); Text (OCR); Unicode TEXT (OCR); RTF (OCR); HTML (OCR); CSV (OCR); Open Office XML (.docx, .xlsx, .pptx)
Scanner specifications	<b>Scanner type (flatbed, ADF):</b> <b>Scan technology:</b> Contact Image Sensor (CIS); <b>Scan input modes:</b> Front panel applications: Copy, E-mail, Save to Network Folder, Save to USB, Save to Device Memory, Open Extensibility Platform (OxP) applications; <b>twain version:</b> Version 2.4; <b>Duplex ADF scanning:</b> Yes, single pass duplex scanning; <b>Optical scan resolution:</b> Up to 600 dpi
Recommended monthly scan volume <sup>3</sup>	5000 to 10,000
Scannable area	<b>Maximum media size (flatbed):</b> 216 x 297 mm; <b>Minimum media size (ADF):</b> 104.14 x 127 mm; <b>Maximum media size (ADF):</b> 216 x 355.6 mm
Bit depth/ Grey scale levels	24-bit / 256
Digital sending	Standard: Embedded OCR; scan to Onedrive; scan to Onedrive for Business; scan to Sharepoint Online; 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>Fax</b>	
Fax/modem <sup>12</sup>	Fax: Optional, Modem: Optional
Fax specifications	<b>Fax memory:</b> Up to 1000 pages; <b>Fax resolution:</b> Standard: 200 x 100 dpi; Fine: Up to 203 x 196 dpi; Superfine: Up to 300 x 300 dpi; <b>Quick dialing:</b> 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	1.2 GHz
Storage <sup>1</sup>	32 GB eMMC; 512 GB SSD (Optional)
<b>Connectivity</b>	
Standard	1 Hi-Speed USB 2.0 (device); 2 Hi-Speed USB 2.0 (host); 1 Gigabit Ethernet 10/100/1000 Base-T network; 1 Hardware Integration Pocket 2nd generation (HIP2)
Optional	HP Jetdirect 3200w WiFi 6 Bluetooth Wireless Accessory 9R1U0A; HP Jetdirect LAN Accessory 8FP31A; HP LJ MFP Analog Fax Accessory
Mobile printing capability	Apple AirPrint™; Mopria™ certified
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: SLB Banner, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP), Manual, TFTP Config, ARP (Ping), IPv6 (Stateless Link-Local and via Router, Statefull 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: T0Base-1x, 100Base-1x, 1000Base-1; 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
Memory	Standard: 4 GB; Maximum: 4 GB
<b>Media handling</b>	
Number of paper trays	Standard: 2; Maximum: 5 <sup>21</sup>
Media types	Paper (bond, color, letterhead, plain, preprinted, prepunched, recycled, rough), envelopes, labels; cardstock; transparencies; user-defined
Media size	<b>Custom (metric):</b> 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 <b>Supported (metric):</b> 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 <b>ADF:</b> Letter; legal; oficio; executive; statement; 16K; A4; RA4; A5; A6; B5; B6 (JIS); Postcard (JIS); 4 x 6 in; 5 x 7 in; 5 x 8 in
Media handling	<b>Standard input:</b> 100-sheet multipurpose feeder, 550-sheet input feeder, 50-sheet automatic document feeder; <b>Standard output:</b> 250-sheet output feeder; <b>Optional input:</b> Optional 1 x 550-sheet paper feeder, 1 x 550-sheet feeder with cabinet, 2,000-sheet feeder high-capacity input with 1 x 550-sheet paper feeder, optional 3 x 550-sheet feeder, optional envelope feeder
Media weight	Feeder 1: 60 to 200 g/m <sup>2</sup> ; Feeder 2: 60 to 120 g/m <sup>2</sup> ; Automatic Duplexer: 60 to 120 g/m <sup>2</sup>
Input capacity	<b>Tray 1:</b> Sheets: 100; Envelopes: 10; <b>Tray 2:</b> Sheets: 550; Labels: Up to 500; <b>Tray 3:</b> Sheets: 550; Envelope Accessory Tray: 50 Envelopes; <b>Maximum:</b> Up to 2,300 sheets; <b>ADF:</b> Standard, 50 sheets
Output capacity	<b>Standard:</b> Up to 250 sheets; <b>Envelopes:</b> Up to 30 envelopes; <b>Transparencies:</b> Up to 100 sheets; <b>Maximum:</b> Up to 250 sheets
Envelope feeder	Yes, 60 sheets (optional) <sup>20</sup>
Compatible operating systems <sup>19</sup>	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
Security management	Identity management: Role Based Access Control (RBAC) Walk-up and Remote Access; Admin PIN 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 SSD); SSL/TLS 1.2, TLS 1.3 support (HTTTPS); 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, PoC 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 MFP 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.
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)
<b>Dimensions and weight</b>	
Printer dimensions (W x D x H)	<b>Minimum:</b> 420 x 400 x 455 mm; <b>Maximum:</b> 420 x 650 x 705 mm
Printer weight <sup>11</sup>	~17.2 kg
Operating environment	<b>Temperature:</b> 15 to 32.5°C; <b>Humidity:</b> 30 to 70% RH
Storage conditions	<b>Temperature:</b> -20 to 40°C
Acoustics <sup>17</sup>	<b>Acoustic power emissions:</b> 6.9 B(A) <b>Acoustic pressure emissions:</b> 54 dB(A)
Power <sup>7</sup>	<b>Requirements:</b> Input Voltage: 100 V - 127 V AC, 50 - 60 Hz, 9.1A; or Input Voltage: 220 V - 240 V AC, 50 - 60 Hz, 4.7 A; <b>Consumption:</b> 704.5 watts (Printing), 18.7 watts (Ready), 0.71 watts (Sleep), 0.02 watts (Auto-Off), 0.02 watts (Off); <b>Typical Electricity Consumption (TEC)</b> <sup>10</sup> : 0.494 kWh/Week (Blue Angel); 0.542 kWh/Week (ENERGY STAR 3.0); <b>Power supply type:</b> Built-in 3-Pin 115V or 220V Internal Power Supply
Energy savings feature technology	HP Auto-Off Technology; Instant-on Technology; Instant-on Copy; TerraJet Toner
Certifications <sup>8</sup>	UL (UL (US/Canada), RCM (Australia), TÜV 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. <b>Electromagnetic emission standard:</b> CISPR 32:2008 (International) Class A, CISPR 32:2015 (International) Class A / EN 55032:2015 Class A + A1:2020, CISPR 35:2016 (International) / EN 55035:2017 + A1:2020, EN IEC 61000-3-2:2019 + A1:2021, EN IEC 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. <b>Blue Angel; ENERGY STAR®</b> certified; CECP; IT ECO Declaration; EPEAT® Gold India; EPEAT® Gold Australia; EPEAT® Gold Canada; EPEAT® Gold US; SEPA; KOECO; Korea MEPS; Vietnam MEPS <b>Blue Angel compliant</b> <sup>18</sup> : Yes, Blue Angel DE-ÜZ 219—only ensured when using Original HP Supplies
Sustainable impact specifications	Mercury free; Contains at least 5% post-consumer recycled plastic; Recyclable through HP Planet Partners
Country of origin	Thailand
What's in the box	A2928A HP LaserJet Enterprise MFP X52952dn Printer; HP Original LaserJet Introductory Toner Cartridge (~6,000 pages); User Guide; Support Flyers; Warranty Cards; Required Erratas ~6,000 pages black



## Footnotes

- <sup>1</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 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](http://hp.com/go/PrintersThatProtect) For more information, visit [hp.com/go/PrinterSecurityClaims](http://hp.com/go/PrinterSecurityClaims).
- <sup>2</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>3</sup> 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.
- <sup>4</sup> 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>
- <sup>5</sup> HP Security Manager must be purchased separately. For details, see [hp.com/go/securitymanager](http://hp.com/go/securitymanager).
- <sup>7</sup> 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.
- <sup>8</sup> HP calculations based on normalized Energy Star® TEC data of HP LaserJet Enterprise X50352-X50452 and X52952-X53052 with HP TerraJet Cartridges compared to HP LaserJet Enterprise E50145 and E52645. See [hp.com/TerraJet/energysaving](http://hp.com/TerraJet/energysaving).
- <sup>9</sup> 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](http://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.
- <sup>10</sup> Recycled plastic is expressed as a percentage of total weight of plastic. See [www.hp.com/tonerrecycledcontent](http://www.hp.com/tonerrecycledcontent) for more information.
- <sup>11</sup> Program availability varies. For more information, visit [hp.com/hprecycle](http://hp.com/hprecycle).

## Technical specifications disclaimers

- <sup>1</sup> 32 GB eMMC is standard, optional storage is available up to a 512 GB SSD
- <sup>2</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.
- <sup>3</sup> HP recommends that the number of scanned pages per month be within the stated range for optimum device performance.
- <sup>4</sup> 75 gsm paper
- <sup>5</sup> 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]. Open Office XML and other editable OCR formats require optional HP Editable OCR license.
- <sup>6</sup> 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 <https://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application and document complexity.
- <sup>7</sup> Power consumption values based on measurement of 115V 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.
- <sup>8</sup> 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.
- <sup>9</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 115 V device and 230 V for Blue Angel.
- <sup>10</sup> Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).
- <sup>11</sup> With print cartridges
- <sup>12</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>13</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>14</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>15</sup> Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Color LaserJet devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups.
- <sup>16</sup> 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.
- <sup>17</sup> Active Printing measured on worse case bundle/mode, printing A4 simplex at 50 ppm. Active Scan measured on worse case bundle/mode, scanning A4 Mono Simplex to USB storage at 43 ppm.
- <sup>18</sup> Device first page out time based on HP internal measurement of printer activation until page exit. Measurement 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.
- <sup>19</sup> 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;
- <sup>20</sup> 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.

