



HP Color LaserJet Managed E45028dn

Small and mighty: HP's smallest Enterprise printer

HP Managed MFPs and printers are optimised for managed environments. With increased monthly page volumes and fewer interventions, this portfolio of products can help reduce printing and copying costs. See your HP Authorized Reseller for details.



This printer uses dynamic security, which may be updated periodically by firmware updates. The printer is intended to be used solely with cartridges using an original HP chip. Cartridges using a non-HP chip may not function or may cease to function. More at: www.hp.com/learn/ds

Easy to use, simple to manage

- HP FutureSmart firmware can be updated with the latest features¹ to optimise your investment for years to come.
- Centralise control of your printing environment with HP Web Jetadmin – and help build business efficiency.²
- Easily enable workflows across your fleet with a consistent user experience and intuitive, tablet-like icons.
- Set up this printer fast, and easily manage device settings to help increase efficiency.

The world's most secure printing³

- 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 printer – 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.
- 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.
- Print directly from the 6.9 cm (2.7 inch) colour display.

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 Roam for Business.⁸
- Save energy without sacrificing performance – this printer is ENERGY STAR® and Blue Angel certified.
- Remove barriers and help meet compliance and accessibility standards with the HP Accessibility Kit (which includes Braille overlay and tactile adhesives, an HP Access Handle, and BigKeys LX Keyboard) and compatibility with HP Accessibility Assistant.

Product walkaround

HP Color LaserJet Managed E45028dn shown

- 1. 150 sheet output bin
- 2. Easy-access USB port
- 3. Front door, access to Original HP toner cartridges with JetIntelligence
- 4. Automatic two-sided printing (default)
- 5. 50 sheet multipurpose input tray 1
- 6. 250 sheet input tray 2
- 7. 6.9 cm colour graphics display
- 8. Convenient front on/off switch
- 9. Right door, access to print path
- 10. Hi-Speed USB 2.0 port for third-party devices
- 11. Hi-Speed USB 2.0 printing port
- 12. Gigabit Ethernet network port



Accessories, Supplies and Support

Supplies	W9090MC HP Black Managed Original LaserJet Toner Cartridge (~8,600 pages) W9091MC HP Cyan Managed Original LaserJet Toner Cartridge (~6,900 pages) W9092MC HP Yellow Managed Original LaserJet Toner Cartridge (~6,900 pages) W9093MC HP Magenta Managed Original LaserJet Toner Cartridge (~6,900 pages)
Accessories	3JN69A HP Jetdirect 3100w BLE/NFC/Wireless Accessory 4QL32A HP Legic Secure USB Reader 8FP31A HP Jetdirect LAN Accessory CF404A HP LaserJet 550-sheet Feeder Tray X3D03A HP Universal USB Proximity Card Reader Y7C05A HP HiP2 Keystroke Reader
Service and Support	U11WSE HP 3 year Next Business Day Color LaserJet Managed E45028 service U11WTE HP 4 year Next Business Day Color LaserJet Managed E45028 service U11WVE HP 5 year Next Business Day Color LaserJet Managed E45028 service U11WZE HP 3 year Channel Parts Only Color LaserJet Managed E45028service U11X0E HP 4 year Channel Parts Only Color LaserJet Managed E45028service U11X1E HP 5 year Channel Parts Only Color LaserJet Managed E45028 service U11X2PE HP 1 year Post Warranty Next Business Day Color LaserJet Managed E45028 service U11X3PE HP 2 year Post Warranty Next Business Day Color LaserJet Managed E45028 service U11X6PE HP 1 year Post Warranty Channel Parts Only Color LaserJet Managed E45028 service U11X7PE HP 2 year Post Warranty Channel Parts Only Color LaserJet Managed E45028 service

Technical specifications

Model	HP Color LaserJet Managed E45028dn
Product number	3QA35A
Functions	Print
Control panel	6.85 cm Colour Non-Touch Control Panel with 24 Keypad
Print	
Print technology	Laser
Print speed ¹	Black (A4, normal): Up to 27 ppm; Colour (A4, normal): Up to 27 ppm; Black (A4, duplex): Up to 24 ipm; Colour (A4, duplex): Up to 24 ipm;
First page out ²	Black (A4, ready): As fast as 9.5 sec; Colour (A4, ready): As fast as 11.0 sec; Black (A4, sleep): As fast as 11.0 sec; Colour (A4, sleep): As fast as 12.1 sec;
Print resolution	Black (best): Up to 600 x 600 dpi; Colour (best): Up to 600 x 600 dpi; Technology: HP ImageREt 3600, Enhanced (600x600 dpi), Fine Lines (1200x1200 dpi), Quickview (300x300 dpi);
Monthly duty cycle	Up to 65,000 pages A4; Recommended monthly page volume: 1,500 to 7,500 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™
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 available at http://www.hp.com/go/laserjetfonts
Print area	Print margins Top: 2 mm, Bottom: 2 mm, Left: 2 mm, Right: 2 mm; Maximum print area : 212 x 352 mm
Duplex printing	Automatic (default)
Processor speed	800MHz
Connectivity	
Standard	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabyte 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 ³	HP ePrint; Apple AirPrint™; Mopria™ Certified; NFC touch-to-print (optional); Wi-Fi® Direct printing; ROAM capable for easy printing; PrinterOn Print
Supported network protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD, Web Services Printing, IPP 2.0, Apple AirPrint™, HP ePrint; Discovery: SLIP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPS, Syslog; Security: SNMPv3, SSL Cert Management, IPSec(IKEv1 and IKEv2), Firewall, 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); Second Ethernet port (Optional).
Memory	Standard: 1.25 GB ; Maximum: 1.25 GB
Media handling	
Number of paper trays	Standard: 2 ; Maximum: 3
Media types	Paper (bond, brochure, coloured, glossy, photo, plain, preprinted, prepunched, recycled, rough); Postcards; Labels; Envelopes
Media size	Custom (metric): Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 98 x 148 to 216 x 356 mm; Optional Tray: 98 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); 10 x 15 cm; A6; 16K; 98 x 148 to 216 x 356 mm; Optional Tray 3: A4; RA4; A5; B5 (JIS); B6 (JIS); 10 x 15 cm; A6; 16K; 98 x 148 to 216 x 356 mm

Model	HP Color LaserJet Managed E45028dn
Product number	3QA35A
Media handling	Standard input: 50 sheet multipurpose tray, 250 sheet input tray Standard output: 150 sheet output bin Optional input: Optional 550 sheet tray; All trays include fixed-size paper tray guides
Media weight	Tray 1: 60 to 176 g/m ² (up to 200 g/m ² with postcards and HP Color laser glossy photo papers); Tray 2: 60 to 163 g/m ² (up to 176 g/m ² with postcards, up to 200 g/m ² HP Color laser glossy photo papers); Optional Tray 3: 60 to 163 g/m ² (up to 176 g/m ² with postcards, up to 150 g/m ² Glossy media); Automatic duplexer: 60 to 163 g/m ²
Input capacity	Tray 1: Sheets: 50; envelopes: 5 Tray 2: Sheets: 250; envelopes: 10 Tray 3: Sheets: 550 Maximum: Up to 850 sheets (with Optional 550 sheet tray)
Output capacity	Standard: Up to 150 sheets Envelopes: Up to 20 envelopes Maximum: Up to 150 sheets
Compatible operating systems	Windows Client OS (32/64-bit): Win10, Win8.1, Win7 Ultimate; Mobile OS: iOS, Android; Mac: Apple® MacOS High Sierra v10.13, Apple® MacOS Mojave v10.14, Apple® MacOS Catalina v10.15; Discrete PCL6 Printer Driver: For more information on the supported operating systems go to http://www.support.hp.com , enter your product name and search, click on User Guides and enter your product name and search for User Guide, search for your (Product Name) - User Guide, Search for the Supported Operating Systems section, UPD PCL6 / PS Printer Drivers; Supported Operating systems: For more information on the supported operating systems see http://www.hp.com/go/upd
Compatible network operating systems	Windows Server 2008 R2 64-bit, Windows Server 2008 R2 64-bit (SP1), Windows Server 2012 64-bit, Windows Server 2012 R2 64-bit, Windows Server 2016 64-bit, Windows Server 2019 64-bit, Citrix Server 6.5, Citrix XenApp & XenDesktop 7.6, Novell iPrint server; Citrix Ready Kit Certification: Up to Citrix Server 7.18, for more information see http://www.citrixready.citrix.com ; Linux: For more information see http://www.developers.hp.com/hp-linux-imaging-and-printing ; Unix: For more information see http://www.hp.com/go/unixmodelscripts
Minimum system requirements	Windows: 2 GB available hard disk space Internet connection or USB port Internet browser. For additional OS hardware requirements see http://www.microsoft.com Mac: 2 GB available hard disk space Internet connection or USB port Internet browser. For additional OS hardware requirements see http://www.apple.com
Software included	No software solutions are included in the Box only on http://www.hp.com or http://www.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, 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), SSL/TLS (HTTPS), Encrypted Credentials; Device: HP Sure Start Secure Boot (BIOS Integrity Checking with self-healing capability), Intrusion Detection (Constant in-device monitoring for attacks), Whitelisting (loads only known good code), Embedded Trusted Platform Module, HP Connection Inspector, Security lock slot, USB port disablement; Security management: Compatible with HP JetAdvantage Security Manager, Device Security Syslog Messages processed and accessible in Arcsight and Splunk SIEMs
Printer management	HP Printer Assistant, HP Web JetAdmin Software, HP JetAdvantage Security Manager, HP SNMP Proxy Agent (Part of HP WebJetAdmin), HP WS Pro Proxy Agent (Part of HP WebJetAdmin), Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator)
Dimensions and weight	
Printer dimensions (W x D x H)	Minimum 413.6 x 472 x 304.4 mm; Maximum: 413.6 x 1038 x 330 mm (printer fully opened)
Package dimensions (W x D x H)	497 x 379 x 583 mm
Printer weight	~18.9 kg
Package weight	21.6 kg
Operating environment	Temperature: 15 to 32.5°C Humidity: 10 to 90% RH
Storage conditions	Temperature: -20 to 40°C
Acoustics	Acoustic power emissions: 5.9 B(A) at 27 ipm Acoustic pressure emissions: 48 dB(A) at 27 ipm
Power	Requirements: 220 to 240 VAC (+/- 10%), 50/60Hz (+/- 3 Hz) (Not dual voltage, power supply varies by part number with # Option code identifier); Consumption: 574 watts (active printing), 16.7 watts (ready), 1.1 watts (sleep), 0.08 watts (auto-off/manual-on), 0.08 watts (manual off); Typical Electricity Consumption (TEC)⁴: Blue Angel: 1.105 kWh/week; Energy Star 3.0: 0.437 kWh/week; Power supply type: Internal (built-in) Power Supply;
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology; Instant-on Copy
Certifications⁵	CISPR 22:2008 (International) Class A, CISPR 32:2012 (International)/ EN 55032:2012, CISPR 35:2016 (International)/ EN 55035:2017, EN 55024:2010+A1:2015, EN 61000-3-2:2014, EN 61000-3-3:2013. Other EMC approvals as required by individual countries. Blue Angel RAL-UZ 205; CECP; ENERGY STAR® certified; EPEAT® Silver Blue Angel compliant Yes, Blue Angel DE-UZ 205—only ensured when using Original HP supplies
Country of origin	Made in Vietnam
What's in the box⁶	HP Color LaserJet Managed E45028dn printer; HP Black Original LaserJet Toner Cartridge (~2,400 pages) HP Cyan, Magenta, Yellow Original LaserJet Toner Cartridges (~2,100 pages each); Fixed-Size Paper Tray Guides; Getting started Guide; 1 Power cord
Warranty	One-year, On-site Repair 24-hour, 7 days a week phone support

Footnotes

¹ 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.

² HP Web Jetadmin is free and available for download at <http://www.hp.com/go/webjetadmin>.

³ 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 <http://www.hp.com/go/PrintersThatProtect>. For more information, visit <http://www.hp.com/go/PrinterSecurityClaims>.

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 To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Subscription may be required. For more information, visit <http://www.hp.com/go/roam>.

Technical specifications disclaimers

¹ 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.

² Measured using ISO/IEC 17629. 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 To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Customers can purchase the HP Jetdirect 3100w BLE/NFC/Wireless accessory or the RadBeacon USB. Subscription may be required. For more information, visit <http://www.hp.com/go/roam>.

⁴ Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).

⁵ EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country.

⁶ 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.

