



HP Color LaserJet Managed E45028dn

HP's entry-level Enterprise-class color printer with speeds up to 27 ppm⁹ and strongest security.¹

HP Managed MFPs and printers are optimized 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.



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 printer 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.



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 2.7-inch (6.9 cm) color 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.
- Leverage HP End of Life Solutions to ensure your Hardware and Supplies are sustainably retired.

Technical specifications

Product name	HP Color LaserJet Managed E45028dn
Product number	3QA35A
Functions	Print
Print	
Duplex printing	Automatic (default)
Print speed ⁷	Black (A4, normal): Up to 27 ppm; Color (A4, normal): Up to 27 ppm; Black (A4, duplex): Up to 24 ipm; Color (A4, duplex): Up to 24 ipm; Black (letter, normal): Up to 29 ppm; Black (letter, duplex): Up to 25 ipm; Color (letter, normal): Up to 29 ppm; Color (letter, duplex): Up to 25 ipm;
First page out ⁹	Black (A4, ready): As fast as 9.5 sec; Color (A4, ready): As fast as 11.0 sec; Black (A4, sleep): As fast as 11.0 sec; Color (A4, sleep): As fast as 12.1 sec
Print technology	Laser
Print resolution	Black (best): Up to 600 x 600 dpi; Black (normal): Up to 600 x 600 dpi; Color (best): Up to 600 x 600 dpi; Color (normal): Up to 600 x 600 dpi
Print resolution technology	HP ImageREt 3600, Enhanced (600x600 dpi), Fine Lines (1200x1200 dpi), Quickview (300x300 dpi)
Print cartridges number	4 (1 each black, cyan, magenta, yellow)
Standard print languages	HP PCL 6, HP PCL 5, HP PostScript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
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)
Connectivity	
Standard connectivity	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabyte Ethernet 10/100/1000T network; 1 FAX
Mobile printing capability ⁶	HP ePrint; Apple AirPrint™; Mopria™ Certified; NFC touch-to-print (optional); Wi-Fi® Direct printing; ROAM capable for easy printing; PrinterOn Print
Wireless capability	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
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
Processor speed	800MHz
Warm-up time	180 sec
Paper handling	
Duty cycle (monthly)	Duty cycle (monthly, A4): Up to 65,000 pages; Recommended monthly page volume: 1,500 to 7,500 pages
Input capacity	50-sheet multipurpose tray, 250-sheet input tray; Optional 550-sheet tray; All trays include fixed-size paper tray guides
Output capacity	150-sheet output bin
Number of paper trays	Standard: 2; Maximum: 3
Media types	Paper (bond, brochure, colored, glossy, letterhead, photo, plain, preprinted, prepunched, recycled, rough), postcards, labels, envelopes
Media weight	Tray 1: 60 to 176 g/m² (up to 200 g/m² with postcards and HP Color laser glossy photo papers); Tray 2: 60 to 163 g/m² (up to 176 g/m² with postcards, up to 200 g/m² HP Color laser glossy photo papers); optional Tray 3: 60 to 163 g/m² (up to 176 g/m² with postcards, up to 150 g/m² Glossy media); Automatic duplexer: 60 to 163 g/m²
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
Printer dimensions (W x D x H)	413.6 x 472 x 304.4 mm
Printer weight	~18.9 kg
Software included	No software solutions are included in the Box only on http://hp.com or http://123.hp.com
What's in the box²	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
Systems	
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://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 www.hp.com/go/upd
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
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
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
Control panel	2.7" Color Non-Touch Control Panel with 24 Keypad
Display	2.658" diagonal Color TFT-LCD back-lit (960 (H) x 240 (V))
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: 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)³: 1.105 kWh/week (Blue Angel); 0.437 kWh/week (Energy Star 3.0); Power supply type: Internal (built-in) Power Supply
Operating environment	Operating temperature range: 15 to 32.5°C; Recommended operating temperature range: 15 to 27°C Operating humidity range: 10 to 90% RH; Recommended operating humidity range: 30 to 70% RH
Ecolabels	Blue Angel RAL-UZ 205; CECP; ENERGY STAR® certified; EPEAT® Silver ¹
Sustainable impact specifications	Mercury-free
Acoustics	Acoustic power emissions: 5.9 B(A) @ 27 ipm; Acoustic power emissions (ready): 4.5 B(A) ; Acoustic pressure emissions: 48 dB(A) @ 27 ipm; Acoustic pressure emissions bystander (ready): 33 dB(A)
Safety approvals and requirements	IEC 60950-1:2005 +A1:2009 +A2:2013 (International); EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013 (EU); EN 60825-1:2014/IEC 60825-1:2014 (Class 1 Laser Product); EN 62479:2010/IEC 62479:2010; Low Voltage Directive 2014/35/EU with CE Mark (Europe); GS Certificate (Germany, Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2011-12; Compliance with Laser safety standards 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser notice No. 50, Dated June 24, 2007; Other safety approvals as required by individual countries.
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: SLP, 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(IKv1 and IKv2), Firewall, 802.1x

Ordering information

Accessories

Number	Description
3JN69A	HP Jetdirect 3100w BLE/NFC/Wireless Accessory
4QL32A	HP Legic Secure USB Reader
8FP31A	HP Jetdirect LAN Accessory
8ZN00A	HP HIP2 Card Reader Accessory Kit
CF404A	HP LaserJet 550-sheet Feeder Tray
X3D03A	HP Universal USB Proximity Card Reader
Y7C05A	HP HIP2 Keystroke Reader

HP Care Packs

Number	Description
U11WSE	HP 3 year Next Business Day Service for EMJLC28
U11WTE	HP 4 year Next Business Day Service for EMJLC28
U11WVE	HP 5 year Next Business Day Service for EMJLC28
U11WWE	HP 3 year 4 hour 9x5 Service for EMJLC28
U11WXE	HP 4 year 4 hour 9x5 Service for EMJLC28
U11WYE	HP 5 year 4 hour 9x5 Service for EMJLC28
U11WZE	HP 3 year Parts Exchange Service for EMJLC28 (Managed Component Only)
U11X0E	HP 4 year Parts Exchange Service for EMJLC28 (Managed Component Only)
U11X1E	HP 5 year Parts Exchange Service for EMJLC28 (Managed Component Only)
U11X2PE	HP 1 year Post Warranty Next Business Day Service for EMJLC28
U11X3PE	HP 2 year Post Warranty Next Business Day Service for EMJLC28
U11X4PE	HP 1 year Post Warranty 4 hour 9x5 Service for EMJLC28
U11X5PE	HP 2 year Post Warranty 4 hour 9x5 Service for EMJLC28
U11X6PE	HP 1 year Post Wty Parts Exchange Service for EMJLC28 (Managed Component Only)
U11X7PE	HP 2 year Post Wty Parts Exchange Service for EMJLC28 (Managed Component Only)

Protect your investment with HP Care Pack. Let HP certified engineers resolve your technical issues. For more details on HP Care Pack, go to hp.com/go/cpc

Supplies and Media

Number	Description
4WN07A	HP Everyday Laser Glossy FSC Paper 120 gsm-150 sht/Tabloid/11 x 17 in
4WN08A	HP Everyday Laser Glossy FSC Paper 120 gsm-150 sht/Letter 8.5 x 11 in
7MV81A	HP Everyday Laser Glossy FSC Paper 120 gsm-150 sht/A3/297 x 420 mm
7MV82A	HP Everyday Laser Glossy FSC Paper 120 gsm-150 sht/A4/210 x 297 mm

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Solutions

For more solutions information, please visit hp.com/go/gsc



Windows 10



HP Care Pack

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 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 hp.com/go/roam
- ⁹ 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.

Technical specifications disclaimers

- ¹ EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country.
- ² 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.
- ³ Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).
- ⁴ 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/toneryield>
- ⁵ 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/toneryield>
- ⁶ To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Customer 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>
- 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 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.
- ⁹ 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.

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