



HP Color LaserJet Enterprise M653 series

This HP Color LaserJet with JetIntelligence merges performance, energy efficiency, and security.¹

This HP Color LaserJet Printer with JetIntelligence combines exceptional performance and energy efficiency with professional-quality documents right when you need them—all while protecting your network with the industry's deepest security.¹



HP Color LaserJet Enterprise M653dn



HP Color LaserJet Enterprise M653x



HP Color LaserJet Enterprise M653dh

The world's most secure printing¹

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Help prevent potential attacks and take immediate action with instant notification of security issues.
- Centralize control of your printing environment with HP Web Jetadmin—and help build business efficiency.²
- Give workgroups what they need to succeed. Choose and deploy over 175 HP and third-party security features.

High speed performance meets energy efficiency

- Speed through tasks and save paper. Print two-sided documents at up to 60 images per minute.³
- This printer wakes up fast and prints your first page faster—in as quickly as 7.7 seconds.⁴
- This printer uses exceptionally low amounts of energy thanks to its innovative design and toner technology.⁵
- Paper handling options include a wheeled stand and 550-sheet input feeder for paper sizes 4 x 6" to legal.

More Pages, Performance, and Protection⁶

- ColorSphere3 toner formulation, combined with an automatic media sensor, help provide leading print quality.
- Original HP Toner Cartridges with JetIntelligence supply 46% more pages per color cartridge vs predecessor.⁶
- Help retain the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
- Spend less time replacing toner, and more on business. Choose high-yield toner cartridges.⁷



¹ Based on HP review of 2016 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit hp.com/go/PrintersThatProtect. For more information: hp.com/go/printersecurityclaims.

² HP Web Jetadmin is available for download at no additional charge at hp.com/go/webjetadmin.

³ 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.

⁴ Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep.

⁵ Energy claim based on TEC data reported on energystar.gov as of January 2017. Data normalized to determine energy efficiency of in-class laser printers with published speed of 50 to 60 ppm. Subject to device settings. Actual results may vary.

⁶ More pages versus predecessor cartridges claim based on page-yield comparison of HP M647A and HP 648A Color Original LaserJet Toner Cartridges with HP 656X High Yield Color Original LaserJet Toner Cartridges. For more information, see hp.com/go/learnaboutefficiency.

⁷ HP 656X High Yield Original LaserJet Toner Cartridges not included; please purchase separately.

⁸ An FCC Class A emissions compliant device meets the less stringent (higher) levels of emissions allowed by the FCC for a product operation in a commercial environment. An FCC class A device cannot be marketed for use in a residential environment and an FCC class A device should not be purchased for use in a residential environment due to the increased risk of interference to radio communications.

Product walkaround

1. 500-sheet output bin
2. Front door access to toner cartridges
3. Wi-Fi Direct printing⁶/Bluetooth Low Energy⁸
4. Built-in automatic two-sided printing
5. 550-sheet tray 2
6. 550-sheet tray 3
7. 4.3-inch (10.9 cm) icon-based color touchscreen
8. Hardware Integration Pocket²
9. Easy-access USB port
10. 100-sheet multipurpose tray 1
11. Lower right door (access to print path)
12. Slot for cable-type security lock
13. Built-in Gigabit Ethernet
14. Hi-Speed USB 2.0 printing port
15. USB port for connecting external USB devices



Series at a glance



Model	HP Color LaserJet Enterprise M653dn	HP Color LaserJet Enterprise M653x	HP Color LaserJet Enterprise M653dh
Product number	J8A04A	J8A05A	J8A06A
Print speeds (letter/A4) ⁴	Up to 60/56 ppm		
Control panel	4.3-inch (10.9 cm) icon-based color touchscreen	4.3-inch (10.9 cm) icon based color touchscreen	Control panel
Automatic two-sided printing	√		
100-sheet tray 1, 550-sheet tray 2	√		
550-sheet paper feeder ⁵	Optional (up to two)	√ (plus up to one optional)	550-sheet paper feeder ⁵
550-sheet paper feeder with stand and cabinet ⁵	Optional	Not available	Optional
3x550-sheet paper feeder and stand ⁵	Optional	Not available	Optional
1x550-sheet/2,000-sheet HCL feeder and stand ⁵	Optional	Not available	Optional
Direct mobile printing	Optional wireless direct ⁶ /NFC ⁷	Embedded Wi-Fi Direct ⁶ / Bluetooth [®] Low Energy ⁸	Direct mobile printing
Wireless networking	Optional ⁹		Wireless networking

¹ Built-in automatic two-sided printing is not supported on the M652n model.

² Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase.

³ An administrator must enable the easy-access USB port before use.

⁴ Measured using ISO/IEC 24734; excludes first set of test documents. For more information, see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

⁵ All models come with 100-sheet multipurpose tray 1 and 550-sheet tray 2. In addition, the M652n, M652dn, and M653dn models can add up to two additional 1x550-sheet/2,000-sheet paper feeder; it does not support any other paper-handling accessories.

⁶ Wi-Fi Direct printing is embedded in the HP Color LaserJet Enterprise M653x model. All other models can add wireless direct by purchasing the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device needs to be connected directly to the signal of a Wi-Fi Direct[®] supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see hp.com/go/mobileprinting. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance[®].

⁷ Touch-to-print capability is optional for all models (except the M653x) with the purchase of the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device must support Near Field Communication (NFC)-enabled printing. For more information, see hp.com/go/businessmobileprinting.

⁸ Bluetooth Low Energy is standard only on the HP Color LaserJet Enterprise M653x, and it cannot be added to other models. Bluetooth[®] is a trademark owned by its proprietor and used by HP Inc. under license.

⁹ All models can add wireless networking with the purchase of the optional HP Jetdirect 2900nw.

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

Only HP enterprise printers repair themselves from attacks in real time while offering outstanding manageability. Automatically monitor threats, detect intrusions, and validate operating software while centrally managing your fleet with ease.¹

With speeds of up to 60 pages per minute³, fast first page out and a variety of paper-handling options, you get confidence that your employees can speed through their tasks without interruption.

Get more pages and help protect your printer using Original HP Toner cartridges with JetIntelligence.⁶

Accessories

2MU47A HP Accessibility Assistant
2NR09A HP 2GB 144-Pin DDR3 TAA Version DIMM
2NR12A HP Removable Hard Drive Enclosure
3JN69A HP Jetdirect 3100w BLE/NFC/Wireless Accessory
5EL03A HP TAA Version Secure Hard Disk Drive
B5L29A HP High-Performance Secure Hard Disk
CC543B HP SmartCard NIPRNet Solution for US Government
E5K48A HP 1 GB x32 144-pin (800 MHz)DDR3 SODIMM
E5K49A HP 2 GB x32 144-pin (800 MHz) DDR3 SODIMM
F5S62A HP Trusted Platform Module Accessory
J8030A HP Jetdirect 3000w NFC/Wireless Accessory
J8031A HP Jetdirect 2900nw Print Server
P1B09A HP Color LaserJet 550-sheet Media Tray
P1B10A HP Color LaserJet 550-sheet Paper Tray with Stand
P1B11A HP Color LaserJet 3x550-sheet Feeder and Stand
P1B12A HP Color LaserJet 1x550/2000-sheet HCI Feeder and Stand

Supplies

HP 655A Black Original LaserJet Toner Cartridge (~12,500 yield) CF450A
 HP 656X High Yield Black Original LaserJet Toner Cartridge (~27,000 yield) CF460X
 HP 655A Cyan Original LaserJet Toner Cartridge (~10,500 yield) CF451A
 HP 656X High Yield Cyan Original LaserJet Toner Cartridge (~22,000 yield) CF461X
 HP 655A Yellow Original LaserJet Toner Cartridge (~10,500 yield) CF452A
 HP 656X High Yield Yellow Original LaserJet Toner Cartridge (~22,000 yield) CF462X
 HP 655A Magenta Original LaserJet Toner Cartridge (~10,500 yield) CF4533A
 HP 656X High Yield Magenta Original LaserJet Toner Cartridge (~22,000 yield) **CF463X**

Services

U9NZ6E - HP 3y Nbd+DMR CLJ Ent M65x HW Supp
U9NZ7E - HP 4y Nbd+DMR CLJ Ent M65x HW Supp
U9NZ8E - HP 5y Nbd+DMR CLJ Ent M65x HW Supp
U9NZ9E - HP 3y 4h 9x5+DMR CLJ Ent M65x HW Supp
U9PA0E - HP 4y 4h 9x5+DMR CLJ Ent M65x HW Supp
U9PA1E - HP 5y 4h 9x5+DMR CLJ Ent M65x HW Supp
U9PA2E - HP 3y 4h 13x5+DMR CLJ Ent M65x HW Supp
U9PB9E - HP 5y Return CLJ Ent M65x SVC



¹ Based on HP review of 2016 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit hp.com/go/PrintersThatProtect. For more information: hp.com/go/printersecurityclaims.

² HP Web Jetadmin is available for download at no additional charge at hp.com/go/webjetadmin.

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⁸ An FCC Class A emissions compliant device meets the less stringent (higher) levels of emissions allowed by the FCC for a product operation in a commercial environment. An FCC class A device cannot be marketed for use in a residential environment and an FCC class A device should not be purchased for use in a residential environment due to the increased risk of interference to radio communications.

HP Color LaserJet Enterprise M653 series

Model	HP Color LaserJet Enterprise M653dn	HP Color LaserJet Enterprise M653x	HP Color LaserJet Enterprise M653dh
Product number	J8A04A	J8A05A	J8A06A
Print	Letter: Up to 60 ppm Black; Up to 60 ppm Color; 2-sided: Up to 60 ppm Black; Up to 60 ppm Color; First page out: As fast as 5.7 sec Black; As fast as 5.8 sec Color; Print speed (Landscape, A5): Up to 74 ppm Black; Up to 74 ppm Color		
Print speed ^{8, 10, 9}	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 Color (best): Up to 1200 x 1200 dpi; Color (normal): Up to 600 x 600 dpi; Color (fine lines): Up to 1200 x 1200 dpi		
Print resolution	Laser; Print resolution technology: HP ImageRet 3600; 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); Pantone® Calibrated		
Print technology	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7), URF (AirPrint)		
Print cartridges number	4 (1 each black, cyan, magenta, yellow)		
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7), URF (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 SureSupply	HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP Web JetAdmin Software; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver/ Yes		
Connectivity			
Standard connectivity	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; Hardware Integration Pocket	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; Hardware Integration Pocket; 1 Wi-Fi direct 802.11b/g/n; 1 Bluetooth low energy	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; Hardware Integration Pocket
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).	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).	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).
Wireless capability	Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A or HP Jetdirect 3000w NFC/Wireless Accessory J8030A	Yes, Built-in Wi-Fi Direct, Bluetooth low energy; Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A	Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A or HP Jetdirect 3000w NFC/Wireless Accessory J8030A
Mobile printing capability ⁷	HP ePrint; Apple AirPrint™; Mopria-certified	HP ePrint; Wireless direct printing; Apple AirPrint™; Mopria-certified	HP ePrint; Apple AirPrint™; Mopria-certified
Memory	Standard: 1 GB; Maximum: 2 GB		
Processor speed	1.2 GHz / Storage: 8 GB eMMC / Hard disk: Optional, 500 GB (with accessory B5L29A)		
Duty cycle (monthly)	Letter: Up to 120,000 pages; Recommended monthly page volume: 2000 to 17,000		
Paper handling			
Input	100-sheet multi-purpose tray, 550-sheet input tray 2; Up to 650 sheets Standard	100-sheet multi-purpose tray, 550-sheet input tray 2, 3; Up to 1200 sheets Standard	100-sheet multi-purpose tray, 550-sheet input tray 2; Up to 650 sheets Standard
Output	Standard: 500-sheet output bin; Up to 500 sheets Standard; Transparencies: Up to 200 sheets		
Duplex Options	Automatic (standard)		
Envelope feeder	No		
Standard paper trays	2	3	2
Media types	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), color transparency, labels, letterhead, envelope, preprinted, prepunched, colored, rough, opaque film, user-defined		
Media weight	Tray 1: 16 to 58 lb (plain) 32 to 58 lb (glossy); Tray 2 and automatic two-sided printing unit: 16 to 90 lb (plain) 32 to 58 lb (glossy); Optional Trays 3, 4, 5 1x550-sheet feeders: 16 to 90 lb (plain) 32 to 58 lb (glossy); Optional Tray 4 2,000-sheet high capacity input: 16 to 58 lb (plain)	Tray 1: 16 to 58 lb (plain) 32 to 58 lb (glossy); Trays 2, 3 and automatic two-sided printing unit: 16 to 90 lb (plain) 32 to 58 lb (glossy); Optional Tray 4: 16 to 90 lb (plain) 32 to 58 lb (glossy)	Tray 1: 16 to 58 lb (plain) 32 to 58 lb (glossy); Tray 2 and automatic two-sided printing unit: 16 to 90 lb (plain) 32 to 58 lb (glossy); Optional Trays 3, 4, 5 1x550-sheet feeders: 16 to 90 lb (plain) 32 to 58 lb (glossy); Optional Tray 4 2,000-sheet high capacity input: 16 to 58 lb (plain)
Media sizes	Tray 1: letter, legal, executive, statement, Oficio, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, envelopes (No. 9, No. 10, Monarch); Tray 2: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional 550-sheet trays: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional 2,000-sheet high-capacity tray: letter, legal	Tray 1: letter, legal, executive, statement, Oficio, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, envelopes (No. 9, No. 10, Monarch); Trays 2, 3: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional Tray 4: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in	Tray 1: letter, legal, executive, statement, Oficio, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, envelopes (No. 9, No. 10, Monarch); Tray 2: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional 550-sheet trays: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Optional 2,000-sheet high-capacity tray: letter, legal
Media Sizes Custom	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2: 4 x 5.83 to 8.5 x 14 in; Optional 550-sheet trays: 4 x 5.83 to 8.5 x 14 in; Optional 2,000-sheet high-capacity tray: custom sizes not supported in this tray	Tray 1: 3 x 5 to 8.5 x 14 in; Trays 2, 3: 4 x 5.83 to 8.5 x 14 in; Optional Tray 4: 4 x 5.83 to 8.5 x 14 in	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2: 4 x 5.83 to 8.5 x 14 in; Optional 550-sheet trays: 4 x 5.83 to 8.5 x 14 in; Optional 2,000-sheet high-capacity tray: custom sizes not supported in this tray
Dimensions (w x d x h)	20.08 x 18.03 x 20.08 in; Maximum: 37.91 x 30.31 x 20.08 in	20.08 x 18.03 x 25.20 in; Maximum: 37.91 x 30.31 x 25.20 in	20.08 x 18.03 x 20.08 in; Maximum: 37.91 x 30.31 x 20.08 in
Weight	68.9 lb	82.7 lb	68.9 lb
What's in the box ²	HP Color LaserJet Printer; HP Black Original LaserJet Toner Cartridge (~12,500 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~10,500 yield each) (toner cartridges installed); CD with software drivers and documentation; Documentation (Hardware Install Guide); Power cord	HP Color LaserJet Printer; HP Black Original LaserJet Toner Cartridge (~12,500 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~10,500 yield each) (toner cartridges installed); CD with software drivers and documentation; Documentation (Hardware Install Guide); Power cord; 1x550-sheet paper feeder	HP Color LaserJet Printer; HP Black Original LaserJet Toner Cartridge (~12,500 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~10,500 yield each) (toner cartridges installed); CD with software drivers and documentation; Documentation (Hardware Install Guide); Power cord
Replacement cartridges ⁶	HP 655A Black Original LaserJet Toner Cartridge (~12,500 yield) CF450A; HP 656X High Yield Black Original LaserJet Toner Cartridge (~27,000 yield) CF460X; HP 655A Cyan Original LaserJet Toner Cartridge (~10,500 yield) CF451A; HP 656X High Yield Cyan Original LaserJet Toner Cartridge (~22,000 yield) CF461X; HP 655A Yellow Original LaserJet Toner Cartridge (~10,500 yield) CF452A; HP 656X High Yield Yellow Original LaserJet Toner Cartridge (~22,000 yield) CF462X; HP 655A Magenta Original LaserJet Toner Cartridge (~10,500 yield) CF453A; HP 656X High Yield Magenta Original LaserJet Toner Cartridge (~22,000 yield) CF463X		
Warranty features	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to hp.com/support to learn about HP award winning service and support options in your region.		
Energy efficiency compliance	ENERGY STAR® qualified; EPEAT® Silver; EPEAT® Gold (#AAZ; #201 options only); CECP	ENERGY STAR® qualified; EPEAT® Silver; CECP	ENERGY STAR® qualified; EPEAT® Gold (#AAZ, #201 options only)
Control panel	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; Home button		
Display	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle)		
Software included	HP Connected, HP Device Experience (DXP), HP PCL 6 (XPS) Printer Driver, HP Software Installer/Uninstaller, Mac OS Welcome Screen (Directs users to 123.HP.com or OS App Source for printer software), Online user manuals		
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 WorldType); 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		
Compatible operating systems	Android, Linux Boss (5.0), Linux Debian (7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6), Linux Fedora (22, 23, 24), Linux Mint (17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2, 42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10), OS macOS 10.12 Sierra, OS X 10.10 Yosemite, OS X 10.11 El Capitan, UNIX, Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows Vista all 32bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)		
Compatible network operating systems	Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server Feature Release 1, 2, and 3), Citrix on Windows Server 2003/2003R2, Citrix on Windows Server 2012/2012R2, Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3) for Windows Server 2008 Terminal Services 32- and 64-bit, Citrix XenApp 6.0/6.5 (for Windows Server 2008 R2 Terminal Services, 32- and 64-bit), Citrix XenApp 6.0/6.5/7.5 (for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit), Citrix XenApp 7.5 (for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit), Citrix XenDesktop 5.6/5.7 (for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit), Citrix XenDesktop 7.0/7.5 (for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit), Novell NetWare 6.5/SP8 Novell Clients www.novell.com/print , Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, Novell Servers www.novell.com/print , Windows Server 2003/2003 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services)		
Minimum system requirements	PC: 2GB available hard disk space, OS hardware requirements see apple.com for more info Power supply type: Built in 115V or 220V Power Supply (not dual voltage, power supply varies by part number with option code identifier); Power supply required: Input voltage: 100V to 127V nominal (+/-10%), 50- 60Hz nominal (+/-3Hz), 12 A; Input voltage: 220V to 240V nominal, (+/-10%) 50- 60Hz nominal (+/-3Hz), 6 A; Power consumption: 780 watts (printing), 31 watts (ready), 0.7 watts (sleep), 0.7 watts (Auto Off/Manual On), 0.1 (Manual Off); Typical electricity consumption (TEC) number: ES: 2.49 kWh/Week; BA: 2.2 kWh/Week; Best technical electricity consumption (TEC): 2.27 kWh/Week		
Acoustics	Acoustic power emissions: 6.9 B(A)	Acoustic power emissions: 6.8 B(A)	Acoustic power emissions: 6.9 B(A)
Operating environment	Operating temperature range: 59 to 86°F; Recommended operating temperature: 63.5 to 77°F; Storage temperature range: -4 to 104°C; Operating humidity range: 10 to 80% RH; Recommended operating humidity range: 30 to 70% RH		
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, and Kerberos authentication; Storage: 10 IPsec configuration (EAP-PEAP, EAP-TLS), SNMPv3, HTTPs; Certificates; Access Control List; Data: Storage Encryption Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft); Secure Eas; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock slot; USB port disablement; hardware integration pocket for security solutions; Intrusion Detection with Red Balloon Security Technology - Constant in-device monitoring for attacks; SureStart Secure Boot - BIOS Integrity Checking with self-healing capability; Whitelisting - loads only known good code (DLLs, EXEs, ...); Security management: Compatible with HP JetAdvantage Security Manager; Device Security Syslog Messages processed and accessible in Arcsight and Splunk SIEMs		

¹ EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country.

² Cartridges included; yields 10,500 color (C/M/Y) and 12,500 black pages. Pages 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>. Pages may vary based on customer printing conditions and usage.

³ 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.

⁴ 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 115V device.

⁵ Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled.

⁶ Average color composite (C/M/Y) and 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>.

⁷ May require a firmware upgrade to be compatible, download at <http://www.hp.com/go/support>

⁸ 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.

⁹ Measured using ISO 24734 Feature Test, A5 Landscape Feed. Speed may vary based on content, PC, media orientation, and media type.

¹⁰ 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.

¹¹ Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep.

¹² Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit <http://www.hp.com/go/learnaboutsupplies>

To learn more, visit hp.com

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