Product guide

Top-quality color your business can count on

HP Color LaserJet Enterprise M651 series

October 2014

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Move your business forward with an ultra-reliable printer

HP JetAdvantage
Business Workflow and Printing Solutions
Streamline crucial paper-based and electronic business processes, using powerful HP JetAdvantage solutions that set you apart from the competition.[1] These innovative tools have been designed and tested for optimal integration into your fleet. Reduce IT workload and costs, enhance employee productivity, and enable users to print securely—wherever business demands.

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2014 PICK

Hewlett-Packard Company
Color LaserJet Enterprise M651 Series
Outstanding A4 Color Printer for
Mid-Size to Large Workgroups

Produce professional-quality color documents in the office or on the go with the reliable HP Color LaserJet Enterprise M651 series with HP JetAdvantage business workflow and printing solutions.[1] Keep business moving from virtually anywhere with simple wireless direct[2] and touch-to-print options.[3] Be ready for the future—invest in a printer that can grow with your business with easily upgradable and extensible solutions.

Who can benefit?

This letter-size color printer is designed for businesses that want to boost productivity for every workgroup with professional-quality color printing, automatic two-sided printing,[4] and easy mobile printing options. This device will be right at home in your office with a user-friendly color touchscreen, up to 3,100-sheet input capacity,[5] and remote device management. Easily upgrade this enterprise printer as your organization's needs change.
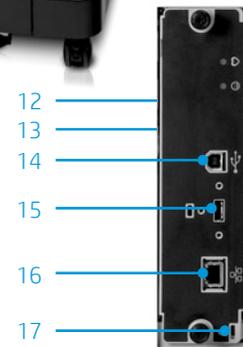
Product walk around

1   Intuitive 4.3-inch (10.9 cm) color VGA control panel

2   500-sheet output bin

3   Home button (returns to home screen)

4   Front door provides convenient access to HP toner cartridges and drums

5   Built-in automatic duplexer

6   500-sheet input tray

7   2 x 500-sheet and 1,500-sheet paper feeders with stand

8   Hardware Integration Pocket

9   Easy access USB port to print files directly[6]

10 100-sheet multipurpose tray supports media weights up to 58 lb bond (220 g/m^2)

11 Lower-right door (access for clearing jams)

12 HP High-Performance Secure Hard Disk

13 800 MHz processor, 1.5 GB RAM

14 Hi-Speed USB 2.0 printing port

15 Hi-Speed USB 2.0 port (for connecting third-party devices)

16 HP Jetdirect Gigabit Ethernet print server

17 Access port for optional Kensington-style lock

Front view

Side I/O panel close-up

Series at a glance

Model	M651n	M651dn	M651xh
Part number	CZ255A	CZ256A	CZ257A
100-sheet multipurpose tray	✓	✓	✓
500-sheet tray 2	✓	✓	✓
2 x 500-sheet and 1,500-sheet paper feeders with stand	Optional	Optional	✓
Touch-to-print and wireless direct mobile printing	Optional	Optional	Optional
HP High-Performance Secure Hard Disk	Not available	Not available	✓
Automatic duplexer	Not available	✓	✓

Product comparison

The following table compares the new HP Color LaserJet Enterprise M651 series with the HP Color LaserJet Enterprise CP4525 series.

HP Color LaserJet Enterprise M651xh	HP Color LaserJet Enterprise CP4525xh	Benefits
Up to 45 pages per minute (ppm) print speed, letter (42 ppm, A4) [7]	Up to 42 ppm print speed, letter (40 ppm, A4)	Faster output
1.5 GB standard memory and pre-installed 320 GB encrypted HP High-Performance Secure Hard Disk [8]	1 GB maximum memory and 120 GB (minimum) Hard Disk Drive (standard on the CP4525xh model)	Better performance and improved print job retention and security
3,100-sheet maximum input capacity (standard on M651xh model) [5]	2,100-sheet maximum input capacity (standard on CP4525xh model)	Higher input capacity minimizes interruptions
Hardware Integration Pocket (HIP)	Not available	Easier integration of solutions such as wireless direct and touch-to-print module
Easy-access USB port	Not available	Quick and easy printing from flash drives
Powered by HP FutureSmart Firmware	Not available	Superior investment protection with streamlined firmware updates
4.3-inch (10.9 cm) articulating color touchscreen control panel	4-line color display	Improved ease of use

Top features at a glance

Get fast, professional-quality color printing with all the reliability of a black-and-white printer. Enjoy simple mobile printing and touch-to-print options. Easily upgrade and add to this device's capabilities as your business needs evolve.

Invest in reliable printing performance

- Tackle printing tasks confidently and smoothly with a printer designed for quiet performance and minimal intervention.
- Meet the demands of high-volume print jobs—this printer has a 3,100-sheet paper input capacity.[5]
- Make everyday printing tasks more efficient. Equip employees to launch jobs easily and accurately from the large 4.3-inch (10.9 cm) touchscreen.
- Equip every department with vibrant, consistent, professional-quality printing.
- Get exceptional value from Original HP high-capacity ink cartridges.

Color touchscreen

Mobilize business printing

- Give users simple, direct access to the printer by adding optional wireless direct printing.[2]
- Enable more convenient and secure mobile printing. With the optional near-field communications (NFC) printing module, employees can send documents by simply touching their smartphone, tablet, or laptop to the printer.[3]
- Empower employees to print from an iPad®, iPhone®, or iPod touch® with Apple® AirPrint™.[9]
- Print virtually anywhere from your mobile device with built-in print capability or the HP ePrint app and software. Works with Mopria-certified devices.[10]

Mobile printing

Ready for the future

- Work with the future in mind. HP FutureSmart Firmware lets you upgrade your printers and MFPs on your schedule, whenever solutions advance.
- Easily expand this printer to match your growing workgroup needs, with add-on features and third-party solution upgrades.
- Manage your entire printing environment from a single location with HP Web Jetadmin.[11]
- Safeguard sensitive data—this printer is equipped with a full suite of advanced security solutions and an encrypted HP High-Performance Secure Hard Disk.[8]
- Add security without adding employees. Apply fleet-wide policies to protect all your HP devices with the HP Imaging and Printing Security Center.[12]

Remote printer management

Conserve resources without sacrificing performance

- Consume less—save paper and reduce costs with automatic two-sided printing.[4]
- Help save energy with HP Auto-On/Auto-Off Technology.[13]
- Designed to conserve—this printer is ENERGY STAR® certified.[14]
- Print on a variety of paper types, even office papers as light as 16 lb bond (60 g/m^2).

Auto-On/Auto-Off Technology

Invest in reliable printing performance

Achieve the results your business demands. Print professional-quality color documents, fast—page after page. Tackle printing tasks confidently and smoothly with a printer designed for quiet performance and minimal intervention.

Meet the demands of your office quickly and quietly

The HP Color LaserJet Enterprise M651 series offers all the hardware reliability and functionality of a black-and-white LaserJet, but with the ability to produce crisp color documents. Designed with your workspace in mind, the printer's updated design delivers clean, quiet performance for distraction-free printing. With a noise emission level of 55 decibels when printing and only 34 decibels at rest, the M651 series lets you concentrate on what's important. And with a recommended monthly page volume of 2,000 up to 17,000 pages,[15] this printer is built to stand up to the demands of today's fast-paced business environment and keep intervention rates low.

Save time and keep your business moving with fast color and black-and-white print speeds up to 45 ppm, letter (42 ppm, A4).[7] With 1.5 GB of system memory and an 800 MHz processor, the printer handles complex jobs quickly. The HP Color LaserJet Enterprise M651 series features Instant-on Technology, enabling print jobs to begin as fast as 9 seconds from ready (letter/A4).[16] Cutting-edge fuser technology produces the first page faster when a printer is coming out of low power mode, so your print job is done sooner.[17] In addition to helping you conserve energy and reduce your environmental impact, these extra seconds can deliver significant real-world performance advantages over time, helping users get more done.

Handle volume with ease

Run high-volume print jobs without frequent paper changes. A maximum input capacity of up to 3,100 sheets helps meet the needs of your high-volume imaging and printing environment and handles large jobs efficiently. With the option to load a high volume of paper or load different sizes in different trays, you have the media support you need without having to reload paper as often.

- The multipurpose tray supports heavy custom media up to 58 lb bond (220 g/m^2).
- The compact M651n and M651dn models have a 100-sheet multipurpose tray, and a 500-sheet tray 2 for a standard input capacity of up to 600 sheets. Increase capacity by adding the 2 x 500-sheet and 1,500-sheet paper feeders with stand. For more information, see "Ordering information" on page 19.
- The M651xh model comes standard with a 100-sheet multipurpose tray, a 500-sheet tray 2, and the 2 x 500-sheet and 1,500-sheet paper feeders for a standard input capacity of 3,100 sheets. It also has a stand, allowing you to move the device to the spot that's most convenient.
- Built-in automatic two-sided printing helps reduce the cost of wasted paper with less effort, and virtually doubles the printer's input capacity.[4]

Up to 45 ppm

Instant-on Technology

Up to 3,100 sheets maximum input capacity

Multiple paper sizes

Color touchscreen

Easy-access USB

The easy-access USB near the control panel lets you quickly complete your print job from a flash drive. A variety of files are supported, including PDF, PostScript (PS), and print-ready files (.prn, .pcl, .cht).

Simplify tasks with the right touch

Enjoy the convenience of an easy-to-use 4.3-inch (10.9 cm) color LCD touchscreen control panel for a trouble-free user experience. The control panel offers:

- **Adjustable tilt angle** of the touchscreen to provide convenient accessibility to all users.
- **Simple-to-use buttons and scroll bar** that allow you to navigate system defaults and customize settings for a particular job.
- **Home button** on the upper left corner of the touchscreen to quickly return the touchscreen to the Home menu.
- **Sign in and Sign out button** to access previously configured secured features. Sign out lets you quickly sign out and restore all options to the default settings.
- **Easy-to-use Sleep, Network, Help, and Refresh buttons** for efficient use of your time.

Make an impression

Stand out with brilliant color documents and professional-quality marketing collateral. HP print technology makes it easy.

Produce exceptional results with HP ImageREt
With HP ImageREt 4800, the HP Color LaserJet Enterprise M651 series delivers brilliant results. The system's foundation is comprised of key color laser technologies, including HP ColorSphere toner, image enhancements, HP Smart printing technology, and high-resolution imaging. Designed together with Original HP print cartridges and HP papers, HP ImageREt produces exceptional output for your printed documents.

Get consistent quality with HP EasyColor
HP EasyColor provides outstanding color and black-and-white output—combining multiple technology enhancements into one easy-to-use feature. Included with the HP Universal Print Driver,[18] this intelligent technology detects document content and automatically adjusts color rendering to optimize photo quality and compress rasterized images for faster printing.

HP EasyColor also recognizes images in a document. It uses the generating application's image file pass-through to emulate what you see on the screen, and determines the necessary adjustments for optimal output quality. The results are improved color consistency and sharper, more natural-looking photos.

Because image file sizes are optimized before being sent to the printer, image-heavy documents—such as PowerPoint presentations—may print more quickly with HP EasyColor. And with smaller spool file sizes, network traffic is reduced. Best of all, you don't need to make a series of complex manual adjustments. HP EasyColor is automatically enabled, so you'll effortlessly experience better color printing.

Color laser technology

Match colors precisely with a PANTONE© calibrated printer[19]
Matching the color on your computer screen to your printer's output can be quite complex, because printing devices and computer monitors use different methods to produce color.

Fortunately, HP has partnered with PANTONE© to make this process easier for the average user. PANTONE© is the world-renowned authority on color and the process of color matching. Because the HP Color LaserJet Enterprise M651 series is a PANTONE© Calibrated Printer, you can rely on it to help you produce consistent, reliable results, reduce time from pre-press to final output, and reduce waste with fewer mistakes.

Conveniently and easily order supplies over the Internet
HP SureSupply alerts you when your print cartridge is running low and helps you purchase online or locally through HP or a participating retailer. Only available with Original HP supplies; Internet access required. To learn more, visit hp.com/go/SureSupply.[21]

Maximize uptime

HP Care Pack Services

Achieve brilliant color every time you print
Let your prints shine with uniform gloss and a dynamic color range. Improved melting and fusing technologies work in sync with HP ColorSphere toner to enable exceptional toner release and flow.

Producing a wide range of very specific colors and smooth color transitions requires extreme precision throughout the printing process. HP's color toner enables a finer range of colors because each toner particle conforms to an extremely consistent size and shape. This consistency allows toner particles to be placed on the page with the precision needed to produce a wide range of colors with the most subtle differences of shade.

HP ColorSphere toner is also designed to improve printing time. Its toner particles are chemically grown around an optimally sized wax core that is designed to work with the fuser's Instant-on Technology for fast image processing with optimum results.

Stay productive with reliable cartridges

Produce presentations and business documents with standout color and crisp, black text—and help save time and money by printing them in the office. Original HP toner cartridge technology delivers print shop-quality results on a wide range of papers designed for professional office printing. Because cartridges are designed for exceptional reliability, you avoid wasted supplies and expensive delays.

Original HP toner cartridges are a crucial component of the printing system.[20] The HP Color LaserJet Enterprise M651 series comes with all print cartridges pre-installed—one black and one each cyan, yellow and magenta cartridges. The print cartridge and toner are integrated into one supply, which means that you refresh the imaging system every time you insert a new cartridge.

- Depend on trustworthy printing supplies to maintain productivity. Original HP LaserJet toner cartridges are engineered together with HP LaserJet printers to deliver consistently outstanding, reliable results for business printing.

- Track cartridge use and reorder easily. Intelligence built into Original HP toner cartridges makes monitoring usage and reordering supplies easy.

- Deepen the impact of your business documents and marketing materials with glossy, photo-quality color. HP ColorSphere technology delivers consistent, professional color.

- Help save money and minimize interruptions by using high-capacity Original HP toner cartridges, designed for greater value.

Enjoy peace of mind with legendary HP reliability

Prior to its introduction, a new HP Color LaserJet device undergoes rigorous HP testing to provide consistent, high-quality output. Tests are performed with a large sample of devices through each step of the design process, to be certain that the device measures up to HP standards. The result is a solid, reliable product that produces consistent, excellent print quality over its entire life.

This printer includes a standard one-year, onsite limited warranty. Warranty and support options vary by product, country and local legal requirements. Additional warranty and service extension options are available. Go to hp.com/support to learn about HP award-winning service and support options in your region.

HP services—protect your technology investment and stay productive
Expand and extend your standard warranty with HP Care Pack Services. Our range of support services provides access to experts when you need them—so you can focus on what you care about. With HP Care Pack services you simply choose the level of support you need—no more, no less. A variety of options are available for the HP Color LaserJet Enterprise M651 series.[22] For more details, see "Ordering information" on page 19. You can also select the HP Care Pack to best meet your needs at hp.com/go/cpc.

Keep business moving—from virtually anywhere

Help workgroups keep up with the pace of business—enable printing from any location in your office or on the go with HP JetAdvantage Mobile Print Solutions.

Print without worries from mobile devices

It's a mobile world. Smart phones, tablets, and notebooks offer the flexibility to be productive at work, home, and on the go. Users want simple and reliable printing from any mobile platform or operating system, while IT managers need to control access to their network and devices. HP is proud to lead the way in mobile printing, offering mobile solutions for more users, use cases, and environments than any of our competitors.

Enterprise mobile printing

The HP Color LaserJet Enterprise M651 series comes ready to deploy optional HP wireless direct and HP touch-to-print.[2,3] You can add wireless direct and touch-to-print across your existing HP devices with either the HP Jetdirect 2800w, which installs in the Hardware Integration Pocket, or with the HP NFC/Wireless 1200w Mobile Print Accessory, via USB.[23]

Both wireless direct and touch-to-print use a secure peer-to-peer connection, allowing users to print without accessing your corporate network. Print files are encrypted, and with a configurable passphrase, you don't have to worry about who is connecting to your office printers. Security and user access settings can be easily set up with HP Web Jetadmin[11] or the Embedded Web Server.

To use wireless direct printing, simply connect your mobile device to your printer in the same way you would discover and connect to any public wireless network. With touch-to-print, you can walk up and print from your NFC-enabled smartphone or tablet with just a touch. NFC, or near field communication, automatically discovers the printer for you, eliminating the guesswork and creating a one-to-one connection using wireless technology.[24]

If you're looking to deploy mobile printing across an existing multi-vendor fleet and need advanced security and management options, we offer the optional HP ePrint Enterprise solution. Learn more about HP's enterprise mobile printing solutions at hp.com/go/businessmobileprinting.

Enable printing anytime, from virtually anywhere

Even when employees are traveling, a printer can always be close at hand—with HP ePrint. Empower them to print virtually anywhere from a smartphone, tablet, or notebook.[10] And with Apple AirPrint, enable employees to print from an iPad, iPhone, or iPod touch.[9]

Simplify mobile printing on your mobile device

HP has been working closely with leading manufacturers of mobile devices to integrate printing into popular operating systems. In fact, HP currently offers the broadest support for embedded print functionality—across Apple iOS (AirPrint), Samsung Android, and Windows® 8. Simply access the print function from the document you want to print, select your printer, and hit Print. For mobile devices without built-in print support, printing is just as simple, but users will first need to download the HP ePrint app or HP ePrint software.

Print from any Mopria-certified smartphone or tablet without setup, software or apps. Mopria is a mobile printing standard that enables easy mobile printing between Mopria certified printers and mobile devices. Learn more at mopria.org.[10]

Wireless direct

Touch-to-print

HP ePrint

Share on a network
The HP Color LaserJet Enterprise MFP M651 series offers embedded wired networking capabilities that allow you to connect directly to a Gigabit Ethernet 10Base-T, 100Base-Tx, or 1000Base-T network. You also have the option of adding secure wireless networking. For more information, please see "Ordering information" on page 19.

Ready for the future

Make a smart investment with a printer that can change with the times. Easily upgrade and extend solutions—and safeguard sensitive data with a full suite of top-tier, embedded and optional HP JetAdvantage security features and solutions.

Keep up with the times

Work with the future in mind. HP FutureSmart Firmware lets you upgrade your printers and MFPs on your schedule, whenever solutions advance. This provides investment protection because you can update to new features, such as workflow and security enhancements, without having to purchase new hardware. HP FutureSmart also can help reduce the time and cost to train new users. A consistent user interface and menu design across all HP FutureSmart devices—including the HP Color LaserJet Enterprise M651 series—makes the user experience intuitive and familiar. To learn more about HP FutureSmart Firmware, visit hp.com/go/futuresmart.

Expand your options

Be ready for the new—now. This printer is designed to be compatible with emerging solutions, so you can upgrade and increase capabilities as needed. HP's cost-effective solution for hardware upgrades—the Hardware Integration Pocket—allows you to integrate security solutions, such as card and badge readers. And HP's Open Extensibility Platform (OXP) creates a unified environment for software solutions that run on your HP Color LaserJet devices—providing sound investment protection, consistency for end users, and easier management. These HP innovations can help your printer remain state-of-the-art long into the future.

Simplicity all around

Resources

HP Web Jetadmin:

- Web site: hp.com/go/wja
- Solution brief: http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA5-2718ENW.pdf
- Video: http://h20621.www2.hp.com/video-gallery/us/en/sss/35D707B5-B7B3-4A67-B4E0-2DE6C423AEA7/r/video/

HP Universal Print Driver:

- Web site: hp.com/go/upd
- Data sheet: http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-4781ENW

Make it easy for all to print with one common driver. The HP Universal Print Driver (UPD),[18] an HP JetAdvantage Management Solution, enables both mobile Microsoft® device users and traditional desktop users to access the full features of nearly every HP device in your managed printing environment without the need for assistance.

Eliminate the clutter on your computer by replacing multiple print drivers with one versatile solution. Empower IT by dramatically reducing the number of drivers they have to manage—and by giving them the tools they need to improve efficiency. With the HP UPD, your IT team can easily adjust device settings to help reduce printing costs, improve security, and help meet environmental goals. For example, it's simple to push two-sided printing or quicker sleep times across the fleet. Plus, the valuable tools in the HP UPD Printer Administrator's Resource Kit help you save time and money by streamlining IT tasks, implementing printing policies, and monitoring usage across the enterprise. You can also use the HP UPD in tandem with HP Web Jetadmin to create fleet-wide managed printer lists, reports, and more.[11]

You can download this valuable fleet driver solution and the tools in the Printer Administrator's Resource Kit for free. For more information about how the HP Universal Print Driver can help you protect your imaging and printing investment, simplify management, and boost productivity, visit hp.com/go/upd.

HP Web Jetadmin

Simple one-to-one device management
The printer can also be managed using the HP Embedded Web Server (EWS). Use a web browser to monitor status, configure network parameters, or access device features.

Control color access

Use HP Web Jetadmin[11] and the HP Universal Print Driver[18] to assign color access by user, time of day, or application, or disallow color output completely until it's needed for special projects. People who truly need to leverage the power of color—such as your sales team and marketing department—can, while others automatically default to black-and-white output.[25]

Built-in security features

Take the guesswork out of fleet management

The HP Color LaserJet Enterprise M651 series is supported by HP Web Jetadmin, an HP JetAdvantage Management Solution.[11] This single solution allows you to efficiently manage a wide variety of networked and PC-connected devices, including printers, multifunction products, and scanners. Remotely install, configure, troubleshoot, safeguard, and manage your devices—ultimately increasing business productivity by helping you save time, control costs, protect your assets, and provide a better return on your investment. Easily integrate new HP LaserJet Pro and Enterprise devices without having to upgrade HP Web Jetadmin. A universal plug-in lets you support most features of new devices and apply corporate policies in one step—helping to save time and simplify device management.[11]

 HP Web Jetadmin enables you to:

- Gain a clear picture of how many and what kinds of devices you have.
- Get visibility into your supplies usage, so you can make smarter purchasing decisions, reduce spending, and even track and allocate printing costs to individual departments or users.
- Simplify, and in many cases, automate routine tasks. For example, you can apply fleet-wide policies to automatically configure new devices with the right printing and security settings when they're added to your network.
- Give your help desk staff the tools they need—such as automatic alerts—to resolve problems quickly, and often proactively, before a call is even received.
- Verify that your devices are up-to-date with the latest firmware and are properly configured (especially important for organizations that need to meet regulatory requirements).
- Use robust tracking and reporting tools to help you make better decisions about how your devices are deployed across your organization, so you can make the most of your IT investments.
- Take advantage of additional options, like the HP Database Connectivity Module which works together with Web Jetadmin to help you establish and help achieve environmental goals.
- Get the ultimate in investment protection with HP Web Jetadmin Premium Support. This expanded service option gives your staff access to HP's dedicated software support engineers, who provide advice, usage recommendations, problem diagnosis, and more.

HP Web Jetadmin can benefit IT-managed print environments of all sizes, from large enterprises managing thousands of devices to small businesses with just a handful. For more information about how you can efficiently manage your entire imaging and printing fleet with HP Web Jetadmin—or to download this free software tool—visit hp.com/go/wja.

Protect your business information

The HP Color LaserJet Enterprise M651 series has a multitude of options to help you secure your environment. You can count on support for a number of solutions, along with built-in security features such as an HP High-Performance Secure Hard Disk[8] and PIN printing options.

Protect your printer
As capabilities expand and devices become more integrated into your work, device security becomes increasingly important. These features help protect the M651 series:

- **Code signing**—Firmware signed by HP ensures that the firmware was produced by HP (authenticity) and that the firmware has not been altered in any way (integrity).
- **Firewall**—The built-in device network firewall allows or denies access to specific TCP/UDP ports and services.
- **Physical port disablement**—Host USB ports, network ports, and other physical ports can be disabled to prevent unauthorized use.
- **CA & Device Identity Certificates**—This printer supports identity certificates signed by a corporate certificate authority, which provides verification of identity and authenticity. This printer also supports CA certificates for validation of identity certificates. Certificates can enable secure

end-to-end communications with the device when used with features like IPsec, Secure-IPP, ePrint, and more. Additional certificates can be stored for validating S/MIME e-mail servers and 802.1x authentication.

- **Authentication and authorization**—Authentication can help your organization manage user access, help secure access to management utilities, and avoid unwanted device configurations. Control access to the printer, device settings, and functions, with options like:

  - **Multiple embedded authentication methods.** Print with a positive ID. With authentication options available from the device, you can configure Windows/Kerberos authentication, LDAP authentication, and user PIN authentication that integrates with your existing infrastructure.

  - **Role-based device authentication and authorization with HP FutureSmart.** With HP FutureSmart, you have more control than ever before over device security and permission settings. IT administrators can decide who can interact with certain device capabilities— helping to make printing more secure, control access, and uphold site security policies.

  - **HP and third-party authentication solutions.** With optional solutions like HP Access Control or HP Smartcard Solutions for U.S. Government,[26] you can enable advanced authentication using proximity cards or smartcards. The Hardware Integration Pocket on the control panel enables integration of select card readers.

- **Physical device protection**—Both the device and the embedded HP High-Performance Secure Hard Disk[8] can be physically secured from theft and tampering using a lock that requires a physical key for removal (this accessory must be purchased separately).

- **Common Criteria Certification (CCC)—**CCC is a security certification recognized in 26 countries worldwide. HP certifies the security functionality of its Enterprise LaserJet MFPs and printers to align with the IEEE 2600 imaging and printing security standard.

Protect your data

Your printer harbors sensitive information—make sure it's not at risk. HP offers security features at every stage in your work.

Protect data at rest with the following features:

- **Storage encryption**—Defend your data. The HP High-Performance Secure Hard Disk[8] in the HP Color LaserJet Enterprise M651xh model provides full hardware encryption.

- **Secure Erase**—The printer provides built-in capabilities for securely overwriting data stored on it, allowing sensitive data to be safely removed. HP offers multiple mechanisms to erase stored data, including functionality that conforms to U.S. National Institute of Science and Technology (NIST) Special Publication 800-88.

- **Password protection**—Stored passwords are encrypted to help provide protection of this critical information.

- **Secure keys, credentials, and certificates**—For an extra level of security, the optional HP Trusted Platform Module (TPM) accessory can be added to the device to strengthen protection of encrypted credentials and data by automatically sealing device encryption keys to the TPM, and provides secure device identity by generating and protecting certificate private keys.[26]

Protect data in transit with these features:

- **Network protection**—Network-transmitted data can be protected with IPsec and print jobs can also be encrypted using Internet Printing Protocol (IPP) over SSL/TLS.

- **CipherSuite Encryption Strength**—Encryption strength can be selected to prevent the use of legacy or insecure protocols for data in transit.

- **FIPS-140 Mode**: Ensures device uses available FIPS-140 validated cryptographic modules for TLS encryption, SNMPv3 signing and encryption and signed certificates.

- **Secure Encrypted Print with HP UPD 5.3.1 or later**—For added security, choose end-to-end Secure Encrypted Print. HP UPD provides true symmetric AES256 print job encryption and decryption from the client to the page based on a user-defined password using FIPS 140 validated cryptographic libraries from Microsoft.[18]

- **Management safeguards**—Device management data that travels over the network between the device and HP Web Jetadmin and other management tools can also be protected using

SNMPv3. HTTPS (HTTP over SSL/TLS) can be enforced so all connections to the device Embedded Web Server administration interface are securely encrypted.

- **Secure Mobile Print**—HP offers multiple options for secure mobile printing. For more information, see "Keep business moving—from virtually anywhere" on page 10.

Safeguard your physical documents

HP offers several optional solutions to help keep documents from falling into the wrong hands and help prevent fraud, such as:

- **Pull printing**—Have documents held and released only to the person who printed them. Pull Printing solutions help protect sensitive data by requiring authentication at the device, and give users the flexibility of pulling the documents from any device that is enabled with the solution.
    - **HP JetAdvantage Pull Print**—With HP's cloud-based pull print you get the advantages of pull print, without the complexity. It comes bundled with HP devices and is simple to set up. It does not require a server, installation, or maintenance. For more information, visit hpjetadvantage.com.[27]
    - **HP Access Control Pull Print**—This optional robust server-based solution offers multiple forms of authentication including badge release, as well as enterprise level security, management, and scalability.
- **Embed anti-fraud features**—This is a valuable tool in sensitive documents like prescriptions, birth certificates, or transcripts. Anti-fraud features are embedded before they are routed to the printer and printed on plain paper by using the optional HP and TROY Secure Document Printing solution.

Easily manage security across the fleet

HP Imaging and Printing Security Center

Apply efficient, fleet-wide security policies to protect all your HP print devices with optional HP Imaging and Printing Security Center (IPSC).[12]

- Streamline the process to securely deploy and monitor devices by applying a single security policy across the fleet.
- Easily create a print security policy for your environment by leveraging the HP IPSC Base Policy template.
- Secure new HP devices as soon as they are added to your network with HP Instant-on Security. The software automatically configures settings to comply with your corporate security policy.
- Improve the security of your infrastructure and device communications by deploying unique identity certificates across your fleet and continuously monitoring to ensure they remain valid with HP IPSC's efficient fleet management of certificates. The administrative overhead to install unique identity certificates across your fleet of HP devices is now less than manually installing on a single device.
- Actively maintain and verify compliance with your defined security policies by using HP IPSC automated monitoring and risk-based reporting.

To learn more about HP Imaging and Printing Security Center or to obtain a free 60-day trial, please visit hp.com/go/ipsc.

HP ArcSight Printer Integration

HP ArcSight provides real-time monitoring of the security posture of HP imaging and printing devices with the industry leading Security Information and Event Management (SIEM) tool.

- HP FutureSmart imaging and printing device security events are logged and easily collected.
- Events are analyzed, correlated, and risks are highlighted in the ArcSight dashboard and pre-built reports.
- Devices can be easily monitored by IT security as part of the broader IT ecosystem and can enable them to take corrective actions.

Safeguard your fleet of HP devices with the solution Buyers Lab, LLC calls trailblazing— HP Imaging and Printing Security Center[28]

HP security best practices

Since 2005, HP has published security best practice checklists for networked environments common to enterprises and small to medium businesses. HP recommends that customers incorporate recommended security configurations into their environments.

For more information on HP security solutions and checklists, please visit hp.com/go/secureprinting.

Conserve resources without sacrificing performance

It has never been more important to save energy and resources, and HP technologies can help. HP's Design for the Environment initiative is driving improvements at every stage in the product lifecycle—helping reduce the amount of energy, paper, packaging, and materials used at HP and by our customers.

Enjoy all the power you need with less waste

With its intelligent design, this printer can help you meet your energy goals, without sacrificing performance:

- **ENERGY STAR® certified**—HP equipment marked with the ENERGY STAR logo is qualified to the U.S. Environmental Protection Agency's ENERGY STAR specifications for imaging equipment. Additional ENERGY STAR information is listed at: hp.com/go/energystar.
- **HP Auto-On/Auto-Off Technology**—Stay productive and conserve resources with intelligence that can turn your printer on when you need it and off when you don't.[13] You can even set custom times for your printer to turn on and off, so it's ready when you are.
- **Instant-on Technology**—HP Color LaserJet products with Instant-on Technology use an innovative, quick-heating fuser system that warms rapidly and cools quickly, helping you conserve energy.[17]

Auto-On/Auto-Off Technology

Save paper and reduce costs

With different HP solutions, you can save paper in a variety of ways:

- Get up to 50% paper savings with built-in automatic two-sided printing.[4]
- HP Web Jetadmin[11] and the HP UPD[18] can help cut the cost of paper consumption by setting automatic two-sided printing as the default for individual devices or entire fleets. This means less waste helping to save both natural and financial resources.
- Improve your printing environmental impact with support for thin media printing. The HP Color LaserJet Enterprise M651 series is compatible with office papers as light as 16 lb bond (60 g/m^2), including HP EcoFFICIENT™ Paper—paper that's more efficient to print, carry, and store.

Automatic two-sided printing

Reduce your impact—recycle HP cartridges

HP helps you recycle your Original HP cartridges—it's easy and free with the HP Planet Partners program, available in more than 50 countries and territories around the world.[29] HP offers postage-paid recycling envelopes and labels for most Original HP cartridges. Raw material from recycled cartridges can be used to manufacture new Original HP cartridges. To date, customers have returned more than 500 million cartridges to HP Planet Partners for recycling.

No Original HP cartridges returned through HP Planet Partners are ever sent to a landfill. For more information, visit hp.com/recycle.

HP Planet Partners

Technical specifications

	HP Color LaserJet Enterprise M651n	HP Color LaserJet Enterprise M651dn	HP Color LaserJet Enterprise M651xh
Product number	CZ255A	CZ256A	CZ257A
Control panel	4.3-inch (10.9 cm) color WQVGA (480 x 272 resolution) touchscreen display; rotating (adjustable angle) display; illuminated Home button (for quick return to the Home menu); easy-access USB (supported file formats: Print: PDF, PS, Print Ready files (.prn, .pcl, .cht); Scan: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A)		
Print speed[7]	Black/color: up to 45 ppm, letter (42 ppm, A4); Duplex: up to 40 images per minute (ipm), letter (38 ipm, A4)		
First page out[16]	Black/color: as fast as 9 seconds from ready (letter/A4)		
Print resolution	Black and color: HP ImageRet 4800; HP FastRes 1200 (1200 dpi quality), 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); PANTONE© calibrated		
Printer Smart Software features	HP ePrint, Apple AirPrint, Open Extensibility Platform, FutureSmart Firmware, Schedule On and Off technology, Instant-on Technology, HP Auto-On/Auto-Off technology,[13] HP EasyColor, easy-access USB printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs		
Processor	800 MHz		
Memory	1.5 GB (system memory) and 512 MB on board DDR2		
Storage	Solid State Drive (minimum 8 GB volatile storage; Firmware encryption (AES 256) of customer/job data; Secure Cryptographic Erase – Job Data, Secure ATA Erase – Disk)		HP High-Performance Secure Hard Disk, minimum 320 GB; AES 256 hardware encryption or greater; Secure erase capabilities (Secure File Erase – Temporary Job Files, Secure Erase – Job Data, Secure ATA Erase – Disk)

Durability ratings

RMPV (recommended monthly page volume)[15]	2,000 pages to as high as 17,000 pages		
Duty cycle[30]	Up to 120,000 pages (letter/A4)		

Media specifications

Input capacity	Paper capacity: up to 600 sheets standard, up to 3,100 sheets maximum (with optional input accessories) Tray 1: up to 100 sheets Tray 2: up to 500 sheets		Paper capacity: up to 3,100 sheets standard Tray 1: up to 100 sheets Trays 2, 3, 4: up to 500 sheets each Tray 5: up to 1,500 sheets
Output capacity	Up to 500 sheets		
Two-sided printing	Manual	Automatic	
Media sizes	Tray 1: letter, legal, 5 x 8 in, 8.5 x 13 in, statement, executive, postcard, 3 x 5 in, 4 x 6 in, envelopes (No. 9, No. 10, Monarch); A4, A5, A6, B5 (JIS), B6 (JIS), 16K, postcard, D postcard, envelopes (C5, B5, C6, DL, ISO); Custom media sizes: 3 x 5 to 8.5 x 14 in (76 x 127 to 216 x 356 mm) Tray 2: letter, legal, 5 x 8 in, 8.5 x 13 in, statement, executive; A4, A5, B5 (JIS), 16K; Custom media sizes: 5.83 x 8.27 to 8.5 x 14 in (148 x 210 to 216 x 356 mm)		
		Duplex: letter, legal, 5 x 8 in, 8.5 x 13 in; A4, A5, B5 (JIS)	
			Trays 3 and 4: letter, legal, 5 x 8 in, 8.5 x 13 in, statement, executive; A4, A5, B5 (JIS), 16K; Custom media sizes: 5.83 x 8.27 to 8.5 x 14 in (148 x 210 to 216 x 356 mm) Tray 5: letter, legal, 5 x 8 in, 8.5 x 13 in, statement, executive; A4, A5, B5 (JIS), 16K

	HP Color LaserJet Enterprise M651n	HP Color LaserJet Enterprise M651dn	HP Color LaserJet Enterprise M651xh
Media weights	Tray 1: 16 to 58 lb bond (60 to 220 g/m²)		
	Tray 2: 16 to 32 lb bond (60 to 120 g/m²), 28 to 58 lb bond (105 to 220 g/m²) glossy paper		
		Duplex: 16 to 32 lb bond (60 to 120 g/m²), 28 to 58 lb bond (105 to 220 g/m²) glossy paper	
			Trays 3-5: 16 to 32 lb bond (60 to 120 g/m²), 28 to 58 lb bond (105 to 220 g/m²) glossy paper
Media types	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy, pre-printed, pre-punched, colored, rough), color transparency, labels, letterhead, envelope, opaque film, user-defined		
Connectivity	1 Hi-Speed device USB 2.0; 2 Host USB 2.0 (for third party connections); 1 Accessory (for Kensington Lock); 1 Ethernet		
Mobile printing	HP ePrint, Apple AirPrint Mobile Apps, Mopria certified; Optional: Wireless direct printing, touch-to-print[31]		
Network capabilities	Standard: Via HP Jetdirect Ethernet embedded print server which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast and Gigabit Ethernet links; IPsec		
	Optional: 802.11b/g/n wireless networking[31]		
Print languages	HP PCL 6, HP PCL 5c, HP postscript level 3 emulation, PDF and AirPrint (URF and PDF)		
Fonts	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 hp.com/go/laserjetfonts		
Network protocols	IPv4/IPv6: Apple Bonjour Compatible (Mac OS 10.2.4 and later), SNMPv1/v2c/v3, HTTP, HTTPS, FTP, TFTP, Port 9100, LPD, WS Discovery, IPP, Secure-IPP, IPsec/Firewall		
	IPv6: DHCPv6, MLDv1, ICMPv6		
	IPv4: Auto-IP, SLP, Telnet, IGMPv2, BOOTP/DHCP, WINS, IP Direct Mode, WS Print		
	Other: NetWare NDS, Bindery, NDPS, iPrint		
Security	Identity Management: Kerberos authentication, LDAP authentication, 1000 user PIN codes, optional HP and third party advanced authentication solutions (e.g., badge readers)		
	Network: IPsec/firewall with Certificate, Pre-Shared Key, and 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, Secure Erase, SSL/TLS, Encrypted Credentials		
	Device: Security lock slot, USB port disablement, Hardware Integration Pocket for security solutions		
	Security Management: Compatible with HP Imaging and Printing Security Center		
Compatible operating systems[32]	Windows XP SP3 or greater (32-bit/64-bit), Windows Vista (32-bit/64-bit), Windows 7 (32-bit/64-bit), Windows 8 (32-bit/64-bit), Windows Server 2003 SP2 or greater (32-bit/64-bit), Windows Server 2008 (32-bit/64-bit), Windows Server 2008 R2 (64-bit), Windows Server 2012 (64-bit)		
	Mac OS X 10.6 Snow Leopard, 10.7 Lion, 10.8 Mountain Lion, 10.9 Maverick		
	For the latest operating system support see: AirPrint (support.apple.com/kb/HT4356?viewlocale=en_US); Android (android.com); Citrix and Windows Terminal Services (hp.com/go/upd); HP ePrint Software Driver (hp.com/go/eprintsoftware); Linux (hplip.net); Novell (novell.com/iprint); SAP device types (hp.com/go/sap/drivers); SAP Print (hp.com/go/sap/print); UNIX (hp.com/go/unix); UNIX Jetdirect (hp.com/go/jetdirectunix_software)		
System requirements, Windows	Windows 8, Windows 7 (SP1 or higher), Windows Vista, Windows XP (SP2 or higher), Windows Server 2003 (SP1 or higher), Windows Server 2008, Windows Server 2008 R2 (64 bit), Windows Server 2012 (64-bit); 200 MB available hard disk space; CD-ROM or DVD drive, or Internet connection; Dedicated universal serial bus (USB 1.1 or 2.0), or network connection; Operating system compatible hardware system requirements see microsoft.com		
System requirements, Macintosh	Mac OS X 10.6 Snow Leopard, OS X 10.7 Lion, OS X 10.8 Mountain Lion, OS X 10.9 Maverick; 1 GB of available hard disk space; CD-ROM or DVD drive, or Internet connection; Dedicated universal serial bus (USB 1.1 or 2.0), or network connection; Operating system compatible hardware system requirements see apple.com		
Dimensions (width x depth x height)	Minimum (all trays closed): 21.7 x 20.5 x 18 in (550 x 520 x 455 mm)		Minimum (all trays closed): 26 x 26 x 39.4 in (660 x 665 x 1000 mm)
	Maximum: 32.3 x 34 x 20.5 in (819 x 863 x 521 mm)		Maximum: 42.3 x 39.8 x 42.3 in (1073 x 1010 x 1073 mm)

	HP Color LaserJet Enterprise M651n	HP Color LaserJet Enterprise M651dn	HP Color LaserJet Enterprise M651xh
Weight (with print cartridges)	86.2 lb (39.1 kg)		153 lb (69.6 kg)
What's in the box	HP Color LaserJet Enterprise M651 printer, Black (~11,500 pages),[33] Cyan, Magenta, and Yellow HP Color LaserJet Toner Cartridges (~15,000 pages),[33] CD with software drivers and documentation, Documentation (Hardware Install Guide), Power cord, HP Jetdirect Gigabit Ethernet Print Server (embedded), 100-sheet multipurpose tray 1, 500-sheet input tray 2, Support flyer		
		Plus: Automatic duplexer (built-in)	Plus: Automatic duplexer (built-in), encrypted hard drive, and the 2 x 500-sheet and 1,500-sheet paper feeders with stand
Software included	Windows: HP Installer/Uninstaller, HP PCL 6 print driver, Wizard, Scan to Folder Setup Wizard, Scan to email setup Wizard, HP Send Fax, DXP (Device Experience), HP Help and Learn Center, Product Registration Assist		
	Mac: HP Installer/Uninstaller, HP Postscript driver, HP Utility, HP Alerts, HP Firmware Updater		
Warranty	HP one-year onsite warranty backed by HP Customer Care with 24 x 7 web support and business hour phone support		
HP SureSupply[21]	Supported		

Environmental and power specifications

	HP Color LaserJet Enterprise M651n	HP Color LaserJet Enterprise M651dn	HP Color LaserJet Enterprise M651xh
Environmental ranges			
Temperatures	Operating: 50 to 86° F (10 to 30° C); Storage: 32 to 95° F (0 to 35° C); Recommended: 59 to 80.6° F (15 to 27° C)		
Relative humidity range	Operating: 10 to 80% RH; Non-operating: 10 to 90% RH; Recommended: 30 to 70% RH		
Acoustic power emissions[34]	Ready mode: 4.9 B(A); Active printing: 7.1 B(A)		
Acoustic pressure emissions (bystander)	Ready mode: 34 dB(A); Active printing: 55 dB(A)		
Power specifications	ENERGY STAR 2.0; EPEAT Silver		
Power supply required	U.S., Canada, Mexico, Japan, Taiwan: Input voltage: 110 to 127 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz) (Not dual voltage, power supply varies by part number with # Option code identifier)		
Power consumption[35]	Printing: 650 watts; Ready: 67 watts; Sleep: 8.5 watts; Auto-off/Wake on LAN: 1.9 watts; Manual Off: 0.1 watts; Auto-Off/Manual On: 0.1 watts		
Typical Electricity Consumption (TEC)	4.7 kWh/week		
Energy-saving features	HP Auto-on/Auto-off Technology, Instant-on Technology, Schedule On and Off technology		
Safety and regulatory compliance	IEC 60950-1:2005 +A1; EN60950-1: 2006 +A11:2009 +A1:2010 +A12:2011; IEC 60825-1:2007 (Class 1 Laser/Led Product); EN 60825-1:2007 (Class 1 Laser/LED Product); UL/cUL Listed (USA/Canada); GS Certificate (Germany, Europe); IEC 62479:2010; EN 62479:2010; Low Voltage Directive 2006/95/EC with CE Marking (Europe); other safety approvals as required by individual countries		
Electromagnetic emission standard	CISPR 22:2008 / EN 55022:2010 (Class A), EN 61000-3-2 :2006 +A1:2009 +A2:2009, EN 61000-3-3 :2008, EN 55024:2010, FCC Title 47 CFR, Part 15 Class A (USA), ICES-003, Issue 4 (Canada), EMC Directive 2004/108/EC with CE Marking (Europe), other EMC approvals as required by individual countries		

Ordering information

Use accessories and supplies specifically designed for the printer to help provide efficient performance. To order the accessories and supplies listed here, go to hp.com. If you do not have access to the Internet, contact your qualified HP dealer, or call HP (U.S.) at (800) 282-6672. To contact HP by country go to welcome.hp.com/country/us/en/wwcontact_us.html.

Product	HP Color LaserJet Enterprise M651n	CZ255A
	HP Color LaserJet Enterprise M651dn	CZ256A
	HP Color LaserJet Enterprise M651xh	CZ257A
Supplies	HP 652A Black Original LaserJet Toner Cartridge (~11,500 pages)[33]	CF320A
	HP 654X High-Yield Black Original LaserJet Toner Cartridge (~20,500 pages)[33]	CF330X
	HP 654A Cyan Original LaserJet Toner Cartridge (~15,000 pages)[33]	CF331A
	HP 654A Yellow Original LaserJet Toner Cartridge (~15,000 pages)[33]	CF332A
	HP 654A Magenta Original LaserJet Toner Cartridge (~15,000 pages)[33]	CF333A
	HP Color LaserJet 110V Fuser Kit[36]	CE246A
	HP Color LaserJet 220V Fuser Kit[36]	CE247A
	HP Color LaserJet Transfer Kit[36]	CE249A
	HP 648A Toner Collection Unit[36]	CE265A
Accessories	HP Color LaserJet 500-sheet Paper Tray	CZ261A
	HP Color LaserJet 2 x 500-sheet and 1,500-sheet Paper Feeders with Stand	CZ263A
	HP Jetdirect ew2500 802.11b/g Wireless Print Server	J8021A
	HP Jetdirect 2700w USB Wireless Print Server[31]	J8026A
	HP Jetdirect 2800w NFC/Wireless Direct Accessory[31]	J8029A
	HP NFC/Wireless 1200w Mobile Print Accessory	E5K46A
HP Care Pack Services[22] Select the right HP Care Pack Service for your printer at hp.com/go/cpc	HP 3-year 4-hour 9x5 Color LaserJet M651 Hardware Support	U1UJ2E
	HP 3-year 4-hour 13x5 Color LaserJet M651 Hardware Support	U1UJ3E
	HP 3-year Next Business Day + Defective Media Retention Color LaserJet M651 Support	U1UJ8E
	HP 4-year Next Business Day + Defective Media Retention Color LaserJet M651 Support	U1UJ9E
	HP 5-year Next Business Day + Defective Media Retention Color LaserJet M651 Support	U1UK0E
Paper	North America: hp.com/go/paper	
Solutions	HP Web Jetadmin: hp.com/go/wja	
	HP Universal Print Driver: hp.com/go/upd	
	HP Imaging and Printing Security Center: hp.com/go/ipsc	
	HP LaserJet Fonts, Barcodes, and IPDS Emulation available at hp.com/go/laserjetfonts	
	To learn more about available infrastructure, management, and workflow solutions, visit hp.com/go/gsc	

Notes

1 Some solutions require additional purchase. Learn more at hp.com/go/printingsolutions.

2 Wireless direct printing requires purchase of optional module. Mobile device may require an app or driver. Wireless performance is dependent on physical environment and distance from the printer. For details, see hp.com/go/businessmobileprinting.

3 Touch-to-print capability requires purchase of optional module. Mobile device must support near-field communications-enabled printing. For a list of supported devices, see hp.com/go/businessmobileprinting.

4 Automatic two-sided printing is not available on the HP Color LaserJet Enterprise M651n model.

5 Maximum paper capacity requires purchase of additional paper trays for the HP Color LaserJet Enterprise M651n and HP Color LaserJet Enterprise M651dn.

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

7 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.

8 HP High-Performance Secure Hard Disk is only available on the HP Color LaserJet Enterprise M651xh.

9 Supports the following devices running iOS 4.2 or later: iPad, iPad 2, iPhone (3GS or later), iPod touch (3rd generation or later). Works with HP's AirPrint-enabled printers and requires the printer be connected to the same network as your iOS device. Wireless performance is dependent upon physical environment and distance from the access point. AirPrint, the AirPrint Logo, iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

10 Requires an Internet connection to the printer. Feature works with any connected Internet- and email-capable device. Requires HP Web Services Account Registration. Print times may vary. For a list of supported documents and image types, see hp.com/go/eprintcenter. And for additional solutions, see hp.com/go/businessmobileprinting. Please note that while your mobile device is directly connected to the printer, access to content that requires Internet support (such as web pages or documents stored in the cloud) may not be supported while in HP wireless direct mode. Mopria-certified devices adhere to a common standard that enables easy mobile printing with little or no setup.

11 HP Web Jetadmin is free and can be downloaded at hp.com/go/webjetadmin. Universal device plug-in is offered with HP Web Jetadmin 10.3 SR4 and higher.

12 HP Imaging and Printing Security Center must be purchased separately.

13 HP Auto-On/Auto-Off Technology capabilities are subject to printer and settings; may require a firmware upgrade.

14 ENERGY STAR® certification applies to the M651dn and M651xh models only.

15 HP recommends that the number of printed pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.

16 Exact speed varies depending on the system configuration, software application, driver and document complexity.

17 Compared with products that use traditional fusing.

18 The HP Universal Print Driver is free and available for download at hp.com/go/upd.

19 PANTONE© colors generated might not match PANTONE©-identified standards. Consult current PANTONE© publications for accurate color.

20 Using genuine HP supplies ensures availability of all HP printing features.

21 HP SureSupply alerts you when your print cartridge is running low and helps you purchase online or locally through HP or a participating retailer. Program features and availability may vary by country. For more information, visit hp.com/go/SureSupply; only available with Original HP supplies; internet access required.

22 Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit hp.com/go/cpc.

23 HP Jetdirect 2800w is supported by most HP Enterprise devices with FutureSmart Firmware. The HP LaserJet Enterprise M4555 MFP series, HP Color LaserJet Enterprise CM4540 MFP series, and HP Color LaserJet Enterprise CP5550 Printer series do not support the HP Jetdirect 2800w, but do support the HP 1200w Mobile Print Accessory. HP 1200w Mobile Print Accessory works with HP Officejet Mobile 100/150 printers and HP LaserJet printers and multifunction products (MFPs) introduced in 2008 or later that are equipped with a USB port.

24 Please note that while your mobile device is directly connected to the printer, access to content that requires Internet support (such as web pages or documents stored in the cloud) may not be supported while in HP wireless direct mode.

25 Color access control capabilities vary from device to device.

26 Use of the optional HP Smartcard Solution for U.S. Government or the optional HP Trusted Platform Module accessory may require a firmware upgrade.

27 HP JetAdvantage Pull Print is available only in North America. HP JetAdvantage Pull Print is available at no charge and requires the MFP be connected to the Internet. For more information see hpjetadvantage.com.

28 Buyer's Lab, Inc. Outstanding Achievement in Security Solutions award, Winter, 2013. For details, see hp.com/go/ipsc and buyerslab.com/Solutions/News/January-2013/BLI-Honors-HP-with-Winter-2013-OA-Award.

29 Program availability varies. Original HP cartridge return and recycling is currently available in more than 50 countries, territories, and regions in Asia, Europe, and North and South America through the HP Planet Partners program. For more information, visit hp.com/recycle.

30 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.

31 HP Jetdirect 2800w (J8029A) and HP Jetdirect 2700w (J8026A) accessories cannot be installed at the same time.

32 Windows Installer has the same Operating System support as the printer driver except the following: Windows XP (SP3 or higher) (32-bit only); Windows Server 2003 (SP2 or higher) (32-bit only); Windows Vista Starter not supported in Driver nor Installer; HP Software Installer CD for Windows - The HP PCL 6 discrete driver and .NET 3.5 SP1 are installed for Windows operating systems along with other optional software. .NET 4.0 is included in Windows 8/Server 2012. HP Software for Mac is no longer included on the CD, but can be downloaded from hp.com - the Mac driver and Mac Utility are installed for Mac operating systems.

33 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 hp.com/go/learnaboutsupplies.

34 Acoustic values are subject to change. For current information see hp.com/support. Configuration tested: base model, simplex printing, A4 paper at an average of 42 ppm.

35 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.

36 HP's maintenance kit life specification is based on simplex, A4/letter, intermittent, four page jobs. The life/yield during normal use may vary depending on usage including environment, media, and other factors.

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