



# HP LaserJet Pro MFP M428-M429 f series

The HP LaserJet Pro MFP M428—focus your time growing your business and staying ahead.

Winning in business means working smarter. The HP LaserJet Pro MFP M428 is designed to let you focus your time where it's most effective growing your business and staying ahead of the competition.

Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future.  
<http://www.hp.com/go/learnaboutsupplies>



HP LaserJet Pro MFP M428fdn



HP LaserJet Pro MFP M428fdw

## Built to keep you—and your business—moving forward

- Scan files directly to Microsoft® SharePoint, Google Drive, Dropbox, email, USB, and network folders.<sup>1</sup>
- Help save time by automating all the steps in a complicated workflow via a 1 button shortcut.<sup>2</sup>
- Print wirelessly even without the network, stay connected with dual band Wi-Fi and Wi-Fi direct.<sup>3,4,5</sup>
- Print effortlessly from any device, virtually anywhere, to any HP printer—securely through the cloud.<sup>6</sup>

## Best-in-class security- detect and stop attacks<sup>7</sup>

- A suite of embedded security features help protect your MFP from being an entry point for attacks.<sup>7</sup>
- Help ensure the security of confidential information with optional PIN/Pull printing to retrieve print jobs<sup>8</sup>
- Thwart potential attacks and take immediate action with instant notification of security issues.
- Optional HP JetAdvantage Security Manager lets simply and efficiently secure your fleet of printers

## Simply designed to un-complicate your day

- Set up this MFP fast, and easily manage device settings to help increase overall printing efficiency.
- Tackle tasks quickly and easily—with the simple intuitive 2.7" (6.8cm) color touchscreen.
- Print Microsoft office docs and pdfs right off your USB drive.<sup>9</sup>
- Avoid interruptions with an HP LaserJet MFP designed to be streamlined for maximum productivity.

## Sustainability is smart business

- Avoid frustrating reprints, wasted supplies, and service calls using Original HP toner cartridges
- Help save paper right out of the box. The duplex print setting is set at default paper savings mode.<sup>10</sup>
- Saves up to 22% over prior products.<sup>11</sup>
- Help save energy with HP Auto-on/Auto-off technology.<sup>13</sup>

<sup>1</sup> Some scan apps may require an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see <http://www.hpconnected.com>

<sup>2</sup> Connect printer/MFP to the network and complete customization through the Embedded Web Server.

<sup>3</sup> Wireless operations are compatible with 2.4 GHz and 5 GHz operations. App or software and HP ePrint account registration may also be required. Some features require purchase of an optional accessory. Learn more at <http://hp.com/go/mobileprinting>.

<sup>4</sup> Feature only supported on the HP LaserJet Pro MFP M428dw and M428fdw. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections

<sup>5</sup> Feature is supported on the HP LaserJet Pro MFP M428dw and M428fdw only. Mobile device needs to be connected directly to the WiFi network of a wireless direct-capable MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Learn more at <http://hp.com/go/businessmobileprinting>

<sup>6</sup> To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Wnenergy (BLE) beaconing capabilities. Subscription or accessory may be required. For more information, visit <http://hp.com/go/roam>

<sup>7</sup> Based on HP review of 2019 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 <http://hp.com/go/PrintersThatProtect>. For more information: <http://hp.com/go/printersecurityclaims>

<sup>8</sup> Pin printing enabled via USB installed in rear of device.

<sup>9</sup> Microsoft and PowerPoint are U.S. registered trademarks of the Microsoft group of companies. Feature works with Microsoft Word and PowerPoint 2003 and later. Only Latin language fonts are supported.

<sup>10</sup> All new product introductions beginning in Fall 2019 will include consistent worldwide default duplex settings (across bundles/drivers); Spring 2019 will include consistent worldwide default duplex settings for most products across the most common drivers.

<sup>11</sup> Based on HP Internal testing using normalized TEC Value, 2019.

<sup>12</sup> Instant threat notifications can appear on the device control panel when a potential threat occurs from malicious intent or there is a bug or vulnerability in the firmware code of the device. If this error raises concern, please contact your company IT representative or, if unavailable, HP Support, who can investigate the cause through analysis of device syslog data using a standard SIEM tool from McAfee, Splunk, Arcsight or SIEMonster. The control panel error message may show an error code on a blue screen during code signature checks or memory write intrusions.

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

## Product walkaround

1. Dual-band Wi-Fi with Bluetooth® Low Energy<sup>1,2</sup> for easy wireless printing and setup
2. 2.7-inch (6.9 cm) customizable color touchscreen control panel (tilts up for easier viewing)
3. Easy-access USB port<sup>3</sup>
4. 100-sheet multipurpose tray 1 supports media sizes up to 8.5 x 14 inches (216 x 356 mm)
5. Rear door (access to the print path)
6. Hi-Speed USB 2.0 port, USB port for job storage and PIN printing,<sup>4</sup> Gigabit Ethernet LAN port, fax port
7. 50-sheet automatic document feeder (ADF) with single-pass, two-sided scanning
8. Flatbed scanner handles media sizes up to 8.5 x 14 inches (216 x 356 mm)
9. 150-sheet output bin
10. Front door release button
11. Front door (access to HP EcoSmart black toner cartridges)
12. Automatic two-sided printing
13. 250-sheet input tray 2 supports media sizes up to 8.5 x 14 inches (216 x 356 mm)



## Series at a glance



Model	HP LaserJet Pro MFP M428fdn	HP LaserJet Pro MFP M428fdw
Functions	Print, copy, scan, fax (both models)	
Print speed (letter/A4) <sup>5</sup>	Up to 40 ppm (default) ; Up to 42 ppm (HP High Speed)/Up to 38 ppm (default) ; Up to 40 ppm (HP High Speed)	
Scan speed (letter/A4) <sup>6</sup>	Simplex: Up to 31/29 ppm (black); up to 21/20 ppm (color) Duplex: Up to 49/46 images per minute (ipm) (black); up to 36/34 ipm (color)	
Scanning	50-sheet ADF with single-pass, two sided scanning (both models)	
Automatic two-sided printing	√	
Control panel display	2.7-inch (6.9 cm) color touchscreen (both models)	
100-sheet multipurpose tray 1, 250-sheet tray 2	√	
550-sheet tray 3	Optional	
Input capacity (standard/maximum <sup>7</sup> )	Up to 350/900 sheets (both models)	
Recommended monthly page volume <sup>8</sup>	Up to 4,000 pages (both models)	
Cartridge yields <sup>9</sup> (A/X)	Black: ~3,000/10,000 pages (both models)	
Dual-band Wi-Fi with Bluetooth Low Energy <sup>1,2</sup>	Not available	
Networking	Built-in 10/100/1000Base-TX Ethernet; Dualband Wireless; 802.11b/g/n / 2.4 / 5 GHz Wi-Fi radio	
Mobile Printing	Apple AirPrint™; Mopria™ Certified; Google Cloud Print™; HP ePrint	Apple AirPrint™; Mopria™ Certified; Google Cloud Print™; HP ePrint; Wi-Fi® Direct Printing

<sup>1</sup> Wireless operations are compatible with 2.4 GHz and 5.0 GHz operations only. Learn more at [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting). Wi-Fi is a registered trademark of Wi-Fi Alliance®.

<sup>2</sup> Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license. Learn more at [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting).

<sup>3</sup> An administrator must enable the easy-access USB port before use.

<sup>4</sup> Requires purchase of separate USB flash drive with at least 16 GB capacity.

<sup>5</sup> Measured using ISO/IEC 24734, excludes first set of test documents. For more information, see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). Exact speed varies depending on the system configuration, software application, driver, and document complexity.

<sup>6</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

<sup>7</sup> Selection of optional 550-sheet tray 3 required to reach maximum input capacity.

<sup>8</sup> Recommended Monthly Page Volume (RMPV): 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.

<sup>9</sup> Actual yields vary considerably based on images printed and other factors. For details visit [hp.com/go/learnaboutesupplies](http://hp.com/go/learnaboutesupplies). Pages may vary based on customer printing conditions and usage.

## 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](http://hp.com/go/cpc)

## Top features

Today's businesses are always on, and always connected. Choose an MFP that can keep up with how you actually work, collaborate, and get things done.

HP Print Security isn't just about securing printers. It's about helping to secure your network with real-time threat detection, automated monitoring, and software validation—designed to detect and stop an attack as it happens.<sup>7</sup>

You have enough to worry about each day. It's easy to accomplish what you need—and exceed your own expectations—with a streamlined MFP that's made for simple use.

Business is all about resource management, and finding efficiencies is everyone's responsibility. HP LaserJet MFPs are designed with the environment in mind, so you can handle what you need while conserving energy wherever possible

### Accessories

**D9P29A** HP LaserJet Pro 550-sheet Feeder Tray

**POR81AA** HP v222w 16GB Mini USB Drive

### Supplies

**CF258A** HP 58A Black Original LaserJet Toner Cartridge (3,000 pages)

**CF258X** HP 58X High Yield Black Original LaserJet Toner Cartridge (10,000 pages)

### Services

**UB9R7E** - HP 3y NBD LJ Pro MFP M428 M429 M329 SVC

**UB9R8E** - HP 4y NBD LJ Pro MFP M428 M429 M329 SVC

**UB9R9E** - HP 5y NBD LJ Pro MFP M428 M429 M329 SVC

**UCOR2E** - HP 3y4h9x5 LJ Pro MFP M428 M429 M329 SVC

**UCOR3E** - HP 4y4h9x5 LJ Pro MFP M428 M429 M329 SVC

**UCOR4E** - HP 5y4h9x5 LJ Pro MFP M428 M429 M329 SVC

**UB9S0E** - HP 3y NBDExchg LJ ProMFP M428M429M329 SVC

**UB9S1E** - HP 3y RTD LJ Pro MFP M428 M429 M329 SVC

**UB9S2PE** - HP 1yPWNBD LJ Pro MFP M428 M429 M329 SVC

**UB9S3PE** - HP 2yPWNBD LJ Pro MFP M428 M429 M329 SVC

**UCOR5PE** - HP 1yPW4h9x5 LJProMFP M428 M429 M329 SVC

**UB9S4PE** - HP 1yPWNBDExchg LJProMFP M428M429M329 SVC

**UB9S5PE** - HP 1yPWRTD LJ Pro MFP M428 M429 M329 SVC



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Model	HP LaserJet Pro MFP M428fdn	HP LaserJet Pro MFP M428fdw
Product number	W1A29A	W1A30A
AIO functions	Print, Copy, Scan, Fax, Email	
Print		
Print speed <sup>8, 10, 9</sup>	<b>First page out Letter:</b> As fast as 6.1 sec Black; <b>First page out A4:</b> As fast as 6.3 sec Black; <b>Letter:</b> Up to 40 ppm (default) ; Up to 42 ppm (HP High Speed) Black; <b>A4:</b> Up to 38 ppm (default) ; Up to 40 ppm (HP High Speed) Black; <b>Print speed (Landscape, A5):</b> Up to 63 ppm Black	
Print resolution	<b>Black (best)</b> Fine Lines (1200 x 1200 dpi); <b>Black (normal)</b> Normal (native 600 x 600 dpi; enhanced up to 4800 x 600 dpi); <b>Black (fine lines)</b> Fine Lines (1200 x 1200 dpi)	
Print technology	Laser; <b>Print resolution technology:</b> HP FastRes 1200, HP ProRes 1200, Economode	
Print cartridges number	1 (black)	
Standard print languages	HP PCL 6, HP PCL 5e, HP postscript level 3 emulation, PDF, URF, Native Office, PWS Raster	
Printer smart software features	Apple AirPrint™, Mopria certified, Google Cloud Print 2.0, ROAM capable for easy printing, HP ePrint, and HP Auto-On/Off Technology, Intuitive 2.7" touchscreen control panel, Scan/Print from Cloud using apps on the control panel, Job Storage with PIN printing, Print from USB, N-up printing, collation	Apple AirPrint™, Mopria certified, Google Cloud Print 2.0, HP ePrint, and Wi-Fi Direct Printing, ROAM enabled for easy printing, HP Auto-On/Off Technology, Intuitive 2.7" touchscreen control panel, Scan/Print from Cloud using apps on the control panel, Job Storage with PIN printing, Print from USB, N-up printing, collation
Printer management / HP SureSupply <sup>13</sup>	HP Printer Assistant, HP Utility (Mac), HP Device Toolbox, HP Web JetAdmin Software, HP JetAdvantage Security Manager, HP SNMP Proxy Agent, HP WS Proxy Agent, Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator) Yes	
Scan		
Scan type / Technology	<b>Type:</b> Flatbed, ADF; <b>Technology:</b> Contact Image Sensor (CIS); <b>TWAIN version:</b> Version 2.3	
Scan resolution	<b>Hardware:</b> Flatbed (Up to 1200 x 1200 dpi); ADF (Up to 300 x 300 dpi); <b>Optical:</b> Up to 1200 x 1200 dpi	
Scan file format	PDF, JPG, TIFF	
Scan input modes	Front-panel scan, copy, email, or file buttons; HP Scan software; and user application via TWAIN or WIA	
Scan Size	<b>ADF:</b> 8.5 x 14 in Maximum; 4 x 6 in Minimum; <b>Flatbed:</b> 8.5 x 11.7 in	
Scan speed <sup>14</sup>	Up to 31 ppm/49 ipm (b&w), up to 21 ppm/36 ipm (color) Letter; Up to 29 ppm/46 ipm (b&w), up to 20 ppm/34 ipm (color) A4; <b>Duplex:</b> Up to 49 ipm (b&w), up to 36 ipm (color) Letter; Up to 46 ipm (b&w), up to 34 ipm (color) A4	
Scanner advanced features	Single-pass 2-sided scanning ADF, Scan to cloud (Google Drive and Dropbox) Scan to email with LDAP email address lookup, Scan to network folder, Scan to USB, Scan to Microsoft SharePoint®, Scan to computer with software, Fax archive to network folder, Fax archive to email, Fax to computer, Enable/disable fax, Quick Sets; PDF; JPG; Windows HP Scan SW supports PDF, searchable PDF, JPG, RTF, TXT, BMP, PNG, TIFF. Mac HP Easy Scan SW supports PDF, searchable PDF, JPG, RTF, TXT, JPG-2000, PNG, TIFF;	
Bit depth / Grayscale levels	24-bit / 256	
Digital sending standard features	Scan to email with LDAP email address lookup, Scan to network folder, Scan to USB, Scan to Microsoft SharePoint®, Scan to computer with software, Fax archive to network folder, Fax archive to email, Fax to computer, Enable/disable fax, Quick Sets	
Copy		
Copy speed <sup>6</sup>	<b>Letter:</b> Up to 40 cpm Black; <b>A4:</b> Up to 38 cpm Black; <b>First copy out Letter:</b> As fast as 6.8 sec Black; <b>First copy out A4:</b> As fast as 7.2 sec Black; <b>2-sided Letter:</b> Up to 33 cpm Black; <b>2-sided A4:</b> Up to 31 cpm Black	
Copy resolution	<b>Color (text and graphics):</b> Up to 600 x 600 dpi	
Maximum Number of Copies	Up to 999 copies	
Copier resize	25 to 400%	
Copier settings	ID Copy, Number of copies, Resize (including 2-Up), Lighter/Darker, Enhancements, Original Size, Binding Margin, Collation, Tray Selection, Two-Sided, Quality (Draft/Normal/Best), Save Current Settings, Restore Factory Defaults	
Fax		
Fax speed	<b>Up to:</b> 33.6 kbps / <b>Letter:</b> 3 sec per page	
Fax resolution	<b>Black (best):</b> Up to 300 x 300 dpi (halftone enabled); <b>Black (standard):</b> 203 x 98 dpi	
Fax smart software features	Permanent fax memory backup; Auto fax reduction; Auto redialing; Delayed sending; Fax forwarding; TAM interface; Junk barrier; Distinctive ring detection; Cover page; Block fax; Billing codes; Save and load; Fax activity reports; Dial prefix setting; Print fax log; HP Digital Fax	
Fax Features	<b>Fax memory:</b> Up to 400 pages; <b>Auto fax reduction supported:</b> Yes; <b>Auto-redialing:</b> Yes; <b>Fax delayed sending:</b> Yes; <b>Distinctive ring detection supported:</b> Yes; <b>Fax forwarding supported:</b> Yes; <b>Fax phone TAM interface supported:</b> Yes; <b>Fax polling supported:</b> Yes (receive only); <b>Fax telephone mode supported:</b> Yes; <b>Junk barrier supported:</b> Yes; <b>CSD matching only (Caller ID not supported):</b> Yes; <b>Maximum speed dialing numbers:</b> Up to 120 numbers; <b>PC interface supported:</b> Yes, only for sending	
Connectivity		
Standard connectivity	1 Hi-Speed USB 2.0; 1 rear host USB; 1 Front USB port; Gigabit Ethernet 10/100/1000BASE-T network; 802.3az(EEE)	1 Hi-Speed USB 2.0; 1 rear host USB; 1 Front USB port; Gigabit Ethernet 10/100/1000BASE-T network; 802.3az(EEE); 802.11b/g/n/2.4/5 GHz Wi-Fi radio
Network capabilities	Built-in 10/100/1000Base-TX Ethernet, Gigabit; Auto-crossover Ethernet; Authentication via 802.1X	
Wireless capability		Yes, built-in dual-band Wi-Fi; Authentication via WEP, WPA/WPA2, WPA Enterprise; Encryption via AES or TKIP; WPS; Wi-Fi Direct; Bluetooth Low-Energy
Mobile printing capabilities	HP Smart App; Apple AirPrint™; Google Cloud Print™; HP ePrint; Mobile Apps; Mopria™ Certified; Roam capable for easy printing	Apple AirPrint™; Google Cloud Print™; HP ePrint; HP Smart App; Mobile Apps; Mopria™ Certified; Roam capable for easy printing; Wi-Fi® Direct Printing
Memory	<b>Standard:</b> 512 MB; <b>Maximum:</b> 512 MB	
Processor speed	1200 MHz / <b>Storage:</b> Optional Job Storage via external rear host USB port (minimum 16 GB) / <b>Hard disk:</b> No	
Duty cycle (monthly) <sup>11</sup>	<b>Letter:</b> Up to 80,000 pages; <b>A4:</b> Up to 80,000 pages; <b>Recommended monthly page volume<sup>12</sup>:</b> 750 to 4000	
Input	100-sheet tray 1, 250-sheet input tray 2; 50-sheet Automatic Document Feeder (ADF); Up to 350 sheets (Tray 1: up to 100 sheets; Tray 2: up to 250 sheets) Standard; Up to 10 envelopes	
Output	<b>Standard:</b> 150-sheet output bin; Up to 150 sheets Standard	
Duplex Options	Automatic (default)	
Auto document feeder capacity	Standard, 50 sheets	
Envelope feeder	No	
Standard paper trays	2	
Media types	Paper (plain, EcoEFFICIENT, light, heavy, bond, colored, letterhead, preprinted, prepunched, recycled, rough); envelopes; labels;	
Media weight	Tray 1: 16 to 46.6 lb; tray 2, optional 550-sheet tray 3: 16 to 32 lb	
Media sizes	Tray 1: Letter; Legal; Executive; Oficio (8.5 x 13 in); 16K; Japanese Postcard; Double Japan Postcard Rotated; Envelope #10; Envelope Monarch; Envelope B5; Envelope C5; Envelope DL; Custom Size; 4 x 6 in; 5 x 8 in; Statement; Tray 2 & Tray 3: Letter; Legal; Executive; Oficio (8.5 x 13 in); Custom Size; 5 x 8 in; Statement	
Media Sizes Custom	Tray 1: 3 x 5 to 8.5 x 14 in, Tray 2, 3: 4.13 x 5.85 to 8.5 x 14 in	
Dimensions (w x d x h) <sup>1</sup>	16.54 x 15.35 x 12.72 in; 420 x 390 x 323 mm; <b>Maximum:</b> 16.93 x 25 x 12.8 in; 430 x 634 x 325 mm	
Weight	27.78 lb; 12.6 kg	
What's in the box	HP LaserJet Pro M428fdn; Preinstalled HP Black LaserJet Toner Cartridge (58A for AMS, yield ~3,000 pages); Getting Started Guide; Support Flyer; Warranty Guide; Regulatory Flyer; Power cord; Phone cord. HP printer software is available at <a href="http://www.hp.com/support">http://www.hp.com/support</a>	HP LaserJet Pro M428fdw; Preinstalled HP Black LaserJet Toner Cartridge (58A for AMS, yield ~3,000 pages); Getting Started Guide; Support Flyer; Warranty Guide; Regulatory Flyer; Power cord; Phone cord. HP printer software is available at <a href="http://www.hp.com/support">http://www.hp.com/support</a>
Replacement cartridges <sup>3</sup>	AMS; For distribution and use in North America and Latin America only: HP 58A Black LaserJet Toner Cartridge (~3,000 pages), CF258A HP 58X Black LaserJet Toner Cartridge (~10,000 pages), CF258X; EMEA: For distribution and use in Europe, Middle East, Russia, CIS, and Africa only: HP 59A Black LaserJet Toner Cartridge (~3,000 pages), CF259A HP 59X Black LaserJet Toner Cartridge (~10,000 pages), CF259X; AP: For distribution and use only in Asia Pacific - excluding China (PRC) and India: HP 76A Black LaserJet Toner Cartridge (~3,000 pages), CF276A HP 76X Black LaserJet Toner Cartridge (~10,000 pages), CF276X	
Warranty features	One-year Bench/Depot Repair warranty. Warranty and support options vary by product, country and local legal requirements. Contact your Contractual Vendor or go to <a href="http://hp.com/support">hp.com/support</a> to learn about HP award winning service and support options in your region. (wty code 4E; wty ID A033)	
Energy star certified	Yes	
Energy efficiency compliance	CECP; ENERGY STAR® qualified; EPEAT® Silver	
Control panel	2.7" Color Touchscreen	
Display	2.7" (6.86 cm) intuitive color touchscreen (CGD)	
Software included	No software solutions are included in the Box. Download software at <a href="http://123.hp.com/laserjet">http://123.hp.com/laserjet</a> or <a href="http://hp.com">http://hp.com</a>	
Fonts and typefaces	84 scalable TrueType fonts	
Compatible operating systems	Windows Client OS (32/64 bit), Win10, Win8.1, Win8 Basic, Win8 Pro, Win8 Enterprise, Win8 Enterprise N, Win7 Starter Edition SP1, UPD Win7 Ultimate, Mobile OS, iOS, Android, Mac, Apple® macOS Sierra v10.12, Apple® macOS High Sierra v10.13, Apple® macOS Mojave v10.14, Discrete PCL6 Printer Driver; For more information on the supported operating systems go to <a href="http://support.hp.com">http://support.hp.com</a> . 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 <a href="http://www.hp.com/go/upd">http://www.hp.com/go/upd</a>	
Compatible network operating systems	Windows Server 2008 R2 64-bit, Windows Server 2008 R2 64-bit (SP1), Windows Server 2012 64-bit, Windows Server 2012 R2 64-bit, Windows Server 2016 64-bit, Failover Cluster 2008 R2, Failover Cluster 2012 R2, Terminal server 2008 R2, Remote Desktop server 2012 R2, Citrix Server 6.5, Citrix XenApp & XenDesktop 7.6, Novell Print server, Citrix Ready Kit Certification - Upto Citrix Server 7.18 for more information see <a href="http://citrixready.citrix.com">http://citrixready.citrix.com</a> , Linux- For more information see <a href="http://developers.hp.com/linux-imaging-and-printing">http://developers.hp.com/linux-imaging-and-printing</a> , Unix- For more information see <a href="http://hp.com/go/unixmodelscripts">http://hp.com/go/unixmodelscripts</a> , UPD PCL6 / PS Printer Drivers, Supported for Compatible Network Operating systems please see <a href="http://hp.com/go/upd">http://hp.com/go/upd</a>	
Minimum system requirements	<b>PC:</b> 2 GB available hard disk space, Internet connection, USB port, Internet browser. For additional OS hardware requirements see <a href="http://microsoft.com">http://microsoft.com</a> ; <b>Mac:</b> 2 GB available hard drive space, Internet connection or USB port, OS hardware requirements see <a href="http://apple.com">apple.com</a> ;	
Power	<b>Power supply type:</b> Internal (built-in) power supply; <b>Power supply required:</b> 110-volt input voltage: 110 to 127 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz) (Not dual voltage, product varies by part number with # Option code identifier); <b>Power consumption<sup>5</sup>:</b> 510 watts (active printing), 7.5 watts (ready), 0.9 watts (sleep), 0.9 watts (Auto Off/Wake on LAN, enabled at shipment), 0.06 watts (Auto-Off/Manual-on), 0.06 (Manual Off); <b>Typical electricity consumption (TEC) number:</b> ES: 1.247 kWh/week	
Acoustics <sup>7</sup>	<b>Acoustic power emissions:</b> 6.7 Bel(A) (Printing at 38 ppm)	
Operating environment	<b>Operating temperature range:</b> 50 to 90.5°F ; <b>Recommended operating temperature:</b> 59 to 80.6°F ; <b>Storage temperature range:</b> -4 to 104°F ; <b>Operating humidity range:</b> 10 to 80% RH (non-condensing) ; <b>Recommended operating humidity range:</b> 30 to 70% RH	
Security management	Secure Boot, Secure Firmware Integrity, Runtime Code Integrity, password protected EWS, secure browsing via SSL/TLS 1.0, TLS 1.1, TLS 1.2; IPP over TLS; Network: enable/disable network ports and features, unused protocol and service disablement, SNMPv1, SNMPv2, and SNMPv3, community password change; HP ePrint: HTTPS with certificate validation, HTTP Basic Access Authentication, SASL authentication; LDAP authentication and authorization; Firewall and ACL; control panel lock, certificates configuration, UPD PIN printing, Syslog, signed firmware, administrator settings, access control, 802.1x authentication (EAP-TLS, and PEAP); Encrypted data storage; Secure data erase; Automatic firmware updates; Secure Encrypted Print via optional job storage, compatible with optional HP JetAdvantage Security Manager	Secure Boot, secure firmware integrity, runtime code integrity, password protect EWS, secure browsing via SSL/TLS 1.0, TLS 1.1, TLS 1.2; IPP over TLS; Network: enable/disable network ports and features, unused protocol and service disablement, SNMPv1 & SNMPv2 community password change; HP ePrint: HTTPS with certificate validation, HTTP Basic Access Authentication, SASL authentication; LDAP authentication and authorization; Firewall and ACL; control panel lock, certificates configuration, UPD PIN printing, Syslog, signed firmware, administrator settings, access control, 802.1x authentication (EAP-TLS, LEAP, and PEAP), authentication via WEP, WPA/WPA2 Personal, WPA2-enterprise wired; encryption via AES or TKIP; Encrypted data storage; Secure data storage; Automatic firmware updates; Secure Encrypted Print via optional job storage, Compatible with optional HP JetAdvantage Security Manager; IPPS

<sup>1</sup> Without trays and covers not extended.

<sup>2</sup> Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Power consumption values typically based on measurement of 115 V device.

<sup>3</sup> Toner cartridges designed for distribution and use within a designated region only; will not work outside of designated region.

<sup>4</sup> 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>

<sup>5</sup> Local printing requires mobile device and printer to be on the same network (usually Wi-Fi access points bridge wireless to wired connections) or have a direct wireless connection. Wireless performance is dependent on physical environment and distance from access point. Remote printing requires an Internet connection to an HP web-connected printer. Wireless broadband use requires separately purchased service contract for mobile devices. Check with service provider for coverage and availability in your area. For more information visit [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting). To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Subscription may be required. For more information, visit <http://hp.com/go/roam>

<sup>6</sup> First Copy Out from Ready and Simplex Copy Speed measured using ISO/IEC 29183. Duplex Copy Speed measured using ISO/IEC 24735, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application and document complexity.

<sup>7</sup> Acoustic values are subject to change. For current information see <http://www.hp.com/support>. Configuration tested: base model, simplex printing, A4 paper at an average of 38 ppm.

<sup>8</sup> Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

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

<sup>10</sup> 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.

<sup>11</sup> Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Color LaserJet devices, and enables appropriate deployment of printers and MFPS to satisfy the demands of connected individuals or groups.

<sup>12</sup> HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period

<sup>13</sup> HP SureSupply alerts you when your print cartridge is running low and helps you purchase online or locally through HP or a participating retailer. For more information, visit <http://www.hp.com/go/SureSupply>, only available with Original HP supplies; Internet access required.

<sup>14</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

<sup>20</sup> Measured using ISO/IEC 24734 Office Suite and Feature Tests, 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, document complexity, media size, media orientation and media type. HP High Speed may require FW upgrade to enable.

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## Contact us to request a quote.



978.774.5400  
info@archimediassg.com  
www.archimediassg.com



617.782.3800  
sales@makepeace.com  
www.asg-companies.com



603.889.7610  
sales@imtek.com  
www.asg-companies.com