

# HP LaserJet Pro MFP M428dw (W1A28A)



## Overview

**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.

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

Scan files directly to Microsoft® SharePoint, email, USB, and network folders.[1]

### **Best-in-class security- detect and stop attacks[6]**

A suite of embedded security features help protect your MFP from being an entry point for attacks.[6]

### **Simply designed to uncomplicate your day**

Set up this MFP fast, and easily manage device settings to help increase overall printing efficiency.

### **Sustainability is smart business**

Avoid frustrating reprints, wasted supplies, and service calls using Original HP toner cartridges

## Features

Enhanced workflows

Wi-Fi-Dual band

Enhanced security

Bluetooth Low-Energy for HP Roam for Business

New user interface

Energy efficient

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*[1] 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>*

*[6] 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>*

## Specifications

<b>Print Resolution Technologies</b>	HP FastRes 1200, HP ProRes1200, Economode
<b>Print quality black (best)</b>	Fine Lines (1200 x 1200 dpi)
<b>Print speed black (ISO, A4)</b>	Up to 38 ppm (default) ; Up to 40 ppm (HP High Speed)
<b>Print speed black (ISO, letter)</b>	Up to 40 ppm (default) ; Up to 42 ppm (HP High Speed)
<b>Print speed</b>	Prints up to 40/42 ppm (A4/LTR) (HP High Speed)
<b>Functions</b>	Print, Copy, Scan, Email
<b>Duplex printing</b>	Automatic (default)
<b>Duty cycle (monthly, A4)</b>	Up to 80,000 pages
<b>Duty cycle (monthly, letter)</b>	Up to 80,000 pages <sup>[11]</sup>
<b>Printer smart software features</b>	Apple AirPrint™, Mopria certified, Google Cloud Print 2.0, HP ePrint, and Wi-Fi Direct Printing, HP Auto-On/Auto-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
<b>Copier smart software features</b>	Instant-on copy; up to 999 multiple copies; Scan once print many; Collation; Reduce/enlarge from 25 to 400% (custom page size presets, binding margin, and two pages to one page); Fit to page; Brightness (lighter/darker); Quality (draft/normal/best); ID copy; Enhancements (optimize for content with presets: none, text, photo, mixed); Copy preview (scan glass only)
<b>Scanner advanced features</b>	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, Quick Sets
<b>Energy savings feature technology</b>	HP Auto-On/Auto-Off Technology; Instant-on Technology
<b>Replacement cartridges</b>	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; APJ: 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 <sup>[3]</sup>
<b>Supplies feature</b>	HP JetIntelligence Cartridge
<b>Connectivity, standard</b>	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
<b>Network capabilities</b>	Yes, via built-in 10/100/1000Base-TX Ethernet, Gigabit; Auto-crossover Ethernet; Authentication via 802.1X
<b>Wireless capability</b>	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

<b>Mobile printing capability</b>	HP Smart App; HP ePrint; Apple AirPrint™; Mobile Apps; Mopria™ Certified; Wi-Fi® Direct Printing; Google Cloud Print™
<b>Network protocols, supported</b>	TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, HP ePrint, Apple AirPrint™, Google Cloud Print 2.0, Mopria, IPP Print; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6), SSL Security and Certificate management; Management: SNMPv1, SNMPv2, SNMPv3, HTTP/HTTPS, Syslog, FTP FW Download
<b>Software included</b>	No software solutions are included in the Box, only on <a href="http://hp.com">http://hp.com</a> , <a href="http://123.hp.com">http://123.hp.com</a> ;
<b>Compatible Operating Systems</b>	Windows Client OS (32/64 bit), Win10, Win8.1, Win 8 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>
<b>Sustainable impact specifications</b>	Mercury-free
<b>Energy star certified</b>	Yes
<b>Ecolabels</b>	ENERGY STAR® qualified; EPEAT® Silver; Blue Angel <sup>[16]</sup>
<b>Blue Angel compliant</b>	Yes, Blue Angel DE-UZ 219—only ensured when using Original HP supplies
<b>Copy speed (black, normal quality, A4)</b>	Up to 38 cpm
<b>Copy speed black (normal, letter)</b>	Up to 40 cpm
<b>Copy speed black duplex (A4)</b>	Up to 31 cpm
<b>Copy speed black duplex (Letter)</b>	Up to 33 cpm
<b>Digital sending standard features</b>	Scan to email with LDAP email address lookup, Scan to network folder, Scan to USB, Scan to Microsoft SharePoint®, Scan to computer with software, Quick Sets
<b>Faxing</b>	No
<b>Scan speed (normal, A4)</b>	Up to 29 ipm (b&w), up to 20 ipm (color)
<b>Scan speed (normal, letter)</b>	Up to 31 ipm (b&w), up to 21 ipm (color)
<b>Scan file format</b>	PDF, JPG, TIFF
<b>Scan input modes</b>	Front-panel scan, copy, email, or file buttons; HP Scan software; and user application via TWAIN or WIA
<b>Scan technology</b>	Contact Image Sensor (CIS)
<b>Scanner type</b>	Flatbed, ADF
<b>Display area (imperial)</b>	2.13 x 1.59 in
<b>Display area (metric)</b>	5.4 x 4.05 cm
<b>Display</b>	2.7" (6.86 cm) intuitive color touchscreen (CGD)

<b>Minimum dimensions (W x D x H)</b>	420 x 390 x 323 mm <i>(without trays and covers not extended)</i>
<b>Minimum dimensions (W x D x H)</b>	16.54 x 15.35 x 12.72 in <i>(without trays and covers not extended)</i>
<b>Weight</b>	12.6 kg
<b>Weight</b>	27.78 lb
<b>Power consumption</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) <sup>[2]</sup>
<b>Power supply type</b>	Internal (Built-in) power supply
<b>What's in the box</b>	HP LaserJet Pro M428dw; Preinstalled HP Black LaserJet Toner Cartridge (59A for EMEA, 58A for AMS, 76A for AP, yield ~3,000 pages); Getting Started Guide; Support Flyer; Warranty Guide; Regulatory Flyer; Power cord; USB cable. HP printer software is available at <a href="http://www.hp.com/support">http://www.hp.com/support</a> <sup>[17]</sup>
<b>Manufacturer Warranty</b>	One-year warranty, return to HP Authorized Service Provider

## Additional specifications

<b>Accessories</b>	HP LaserJet 550-sheet Feeder Tray D9P29A; HP v222w 16 GB Mini USB Drive POR81AA
<b>Acoustic power emissions (active scan)</b>	6.3 Bel(A) (Scanning with ADF running)
<b>Acoustic power emissions (active, printing)</b>	6.7 Bel(A) (Printing at 38 ppm)
<b>Acoustic power emissions (ready)</b>	Inaudible
<b>Acoustic pressure emissions bystander (active scan)</b>	48 dB(A) (Scanning with ADF running)
<b>Acoustic pressure emissions bystander (active, printing)</b>	53 dB(A)
<b>Acoustic pressure emissions bystander (ready)</b>	Inaudible
<b>Auto fax reduction supported</b>	No
<b>Automatic document feeder capacity</b>	Standard, 50 sheets
<b>Automatic paper sensor</b>	No
<b>Bit depth</b>	24-bit
<b>Bottom margin (A4)</b>	5 mm
<b>Business filter</b>	cMPS
<b>Cable included</b>	Yes, 1 USB cable
<b>Cartons per layer</b>	6
<b>Certifications and compliances</b>	CSA (Canada), ANZ (Australia & New Zealand), TUV and GS Mark (Germany), BSMI (Taiwan), CCC (China), KC & KCC (South Korea), NOM (Mexico), Malaysia, Singapore, Chile, Vietnam, Eastern European approvals, CE Marking, FCC approval, BIS(India), S-Mark(Argentina), UL listed and etc.
<b>Color scanning</b>	Yes
<b>Compatible Network Operating Systems</b>	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 iPrint 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/hp-linux-imaging-and-printing">http://developers.hp.com/hp-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>
<b>Component type</b>	Printer
<b>Control panel</b>	2.7" Color Touchscreen
<b>Copier scaling (ADF)</b>	25 to 400%

<b>Copier settings</b>	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
<b>Copies, maximum</b>	Up to 999 copies
<b>Copy reduce / enlarge settings</b>	25 to 400%
<b>Copy resolution (black text)</b>	Up to 600 x 600 dpi
<b>Copy resolution (color text and graphics)</b>	Up to 600 x 600 dpi
<b>Count of layers in pallet</b>	5 (NA), 4 (EMEA,AP)
<b>Country of origin</b>	Made in China; Made in Brazil (W1A28A#696)
<b>Distinctive ring detection supported</b>	No
<b>Downloadable software</b>	From <a href="http://123.hp.com">http://123.hp.com</a> , HP Easy Start (Guided Software Install for Windows and Mac), From <a href="http://hp.com">http://hp.com</a> for Windows OS, Full-solution software and drivers, Basic-solution software and drivers, HP PCL6 XPS Discrete Print Driver, Product Documentation and Support, From <a href="http://hp.com">http://hp.com</a> for Mac OS, HP Easy Start (Guided Software Install), HP Mac PS Print Driver, HP Easy Admin, For Mobile OS, iOS For more information see <a href="http://hp.com/go/businessmobileprinting">http://hp.com/go/businessmobileprinting</a> , Android For more information see <a href="http://hp.com/go/businessmobileprinting">http://hp.com/go/businessmobileprinting</a> , From <a href="http://hp.com">http://hp.com</a> for printer administrators, Printer Administrator Resource Kit (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator), HP Universal Print Drivers PCL6 GDI & PS GDI for Windows, HP ePrint Software (Mobile Driver for Windows), SAP Print Drivers for more information see <a href="http://support.hp.com/us-en/document/c05051702">http://support.hp.com/us-en/document/c05051702</a> , HP Web JetAdmin, HP JetAdvantage Security Manager, HPLIP Linux Printer Driver for more information see <a href="http://hplipopensource.com/hplip-web/index.html">http://hplipopensource.com/hplip-web/index.html</a> , Unix Model Script Printer Driver for more information see <a href="http://hp.com/go/unixmodelscripts">http://hp.com/go/unixmodelscripts</a> , ReadIris
<b>Driver updates</b>	Latest supported operating systems and Print drivers available at <a href="http://www.hp.com/support/ljM428MFP">http://www.hp.com/support/ljM428MFP</a>
<b>Duplex ADF scanning</b>	No
<b>Duty cycle note</b>	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.
<b>Dynamic security</b>	Dynamic security enabled printer
<b>Electromagnetic compatibility</b>	CISPR 32:2012/EN 55032:2012 - Class B, CISPR 32:2015/EN 55032:2015 - Class B, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010+A1:2015, FCC Title 47 CFR, Part 15 Class B / ICES-003, Issue 6;
<b>Engine life</b>	200000
<b>Enhanced scanning resolution</b>	Up to 1200 x 1200 dpi
<b>Envelope Feeder</b>	No
<b>Fax Auto Redial</b>	No

<b>Finished output handling</b>	Sheetfeed
<b>First copy out black (A4)</b>	As fast as 7.2 sec
<b>First copy out black (A4, sleep)</b>	As fast as 9.5 sec
<b>First copy out black (letter)</b>	As fast as 6.8 sec
<b>First copy out black (letter, sleep)</b>	As fast as 9.1 sec
<b>First page out black (A4, ready)</b>	As fast as 6.3 sec
<b>First page out black (A4, sleep)</b>	As fast as 8.8 sec
<b>First page out black (letter, ready)</b>	As fast as 6.1 sec
<b>First page out black (letter, sleep)</b>	As fast as 8.6 sec
<b>Fonts and typefaces</b>	84 scalable TrueType fonts
<b>Input capacity</b>	Up to 350 sheets (Tray 1: up to 100 sheets; Tray 2: up to 250 sheets)
<b>Internal Storage</b>	No
<b>Left margin (A4)</b>	4 mm
<b>Levels of grayscale</b>	256
<b>Mac compatible</b>	Yes
<b>Maximum Input Capacity (envelopes)</b>	Up to 10 envelopes
<b>Maximum Memory</b>	512 MB
<b>Maximum dimensions (W x D x H)</b>	16.93 x 25 x 12.8 in
<b>Maximum dimensions (W x D x H)</b>	430 x 634 x 325 mm
<b>Maximum input capacity (sheets)</b>	Up to 900 sheets (with Optional 550-sheet tray)
<b>Maximum output capacity (sheets)</b>	Up to 150 sheets
<b>Maximum print area</b>	207.4 x 347.1mm
<b>Media size (ADF)</b>	Letter; Legal; A4; custom sizes 102 x 152 to 216 x 356 mm
<b>Media size, tray 1</b>	Letter; Legal; Executive; Oficio (8.5 x 13 in); A4; A5; A6; B5 (JIS); Oficio (216 x 340 mm); 16K (195 x 270 mm); 16K (184 x 260 mm); 16K (197 x 273 mm); Custom Size; A5-R; 5 x 8 in; B6 (JIS); Statement
<b>Media size, tray 2</b>	Letter; Legal; Executive; Oficio (8.5 x 13 in); A4; A5; A6; B5 (JIS); Oficio (216 x 340 mm); 16K (195 x 270 mm); 16K (184 x 260 mm); 16K (197 x 273 mm); Custom Size; A5-R; 5 x 8 in; B6 (JIS); Statement
<b>Media size, tray 3</b>	Letter; Legal; Executive; Oficio (8.5 x 13 in); A4; A5; A6; B5 (JIS); Oficio (216 x 340 mm); 16K (195 x 270 mm); 16K (184 x 260 mm); 16K (197 x 273 mm); Custom Size; A5-R; 5 x 8 in; B6 (JIS); Statement
<b>Media sizes supported</b>	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



<b>Media sizes supported</b>	Tray 1: A4; A5; A6; B5 (JIS); Oficio (216 x 340 mm); 16K (195 x 270 mm); 16K (184 x 260 mm); 16K (197 x 273 mm); 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: A4; A5; A6; B5 (JIS); Oficio (216 x 340 mm); 16K (195 x 270 mm); 16K (184 x 260 mm); 16K (197 x 273 mm); Custom Size; A5-R; 4 x 6 in; B6 (JIS)
<b>Media sizes supported, key</b>	10 x 15 cm; A4; Envelopes
<b>Media sizes supported, key</b>	4 x 6 in; Letter; Legal; Envelopes
<b>Media sizes, custom</b>	Tray 1: 76.2 x 127 to 215.9 x 355.6 mm; Tray 2, 3: 104.9 x 148.59 to 215.9 x 355.6 mm
<b>Media sizes, custom</b>	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
<b>Media type and capacity, ADF</b>	Sheets: 50 uncurled
<b>Media type and capacity, tray 1</b>	Sheets: 100; Envelopes: 10
<b>Media type and capacity, tray 2</b>	Sheets: 250
<b>Media type and capacity, tray 3</b>	Sheets: 550 (optional)
<b>Media types</b>	Paper (plain, EcoEFFICIENT, light, heavy, bond, colored, letterhead, preprinted, prepunched, recycled, rough); envelopes; labels;
<b>Media weight (tray 1)</b>	60 to 200 g/m <sup>2</sup>
<b>Media weight (tray 2)</b>	60 to 120 g/m <sup>2</sup>
<b>Media weight (tray 3)</b>	60 to 120 g/m <sup>2</sup> (optional 550-sheet tray)
<b>Media weight, supported</b>	Tray 1: 60 to 200 g/m <sup>2</sup> ; tray 2, optional 550-sheet tray 3: 60 to 120 g/m <sup>2</sup>
<b>Media weight, supported</b>	Tray 1: 16 to 53 lb; tray 2, optional 550-sheet tray 3: 16 to 32 lb
<b>Media weights, supported ADF</b>	14 to 32 lb
<b>Media weights, supported ADF</b>	50 to 120 g/m <sup>2</sup>
<b>Memory</b>	512 MB
<b>Minimum System Requirements</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>Minimum System Requirements for Macintosh</b>	2 GB available hard drive space, Internet connection or USB port, OS hardware requirements see <a href="http://apple.com">apple.com</a> ;
<b>Native scan file format</b>	PDF; JPG
<b>Number of print cartridges</b>	1 (black)
<b>Number of users</b>	3-10 Users
<b>Operating humidity range</b>	10 to 80% RH (non-condensing)
<b>Operating temperature range</b>	50 to 90.5°F
<b>Operating temperature range</b>	10 to 32.5°C
<b>Output capacity</b>	Up to 150 sheets
<b>Package dimensions (W x D x H)</b>	497 x 398 x 490 mm
<b>Package dimensions (W x D x H)</b>	19.56 x 15.66 x 19.29 in

<b>Package weight</b>	34.1 lb
<b>Package weight</b>	15.5 kg
<b>Page yield (set-up/inbox cartridges)</b>	~3000 pages black
<b>Pallet dimensions</b>	47.24 x 39.37 x 102.56 in (NA), 47.24 x 39.37 x 83.27 in (EMEA, AP)
<b>Pallet dimensions (W x D x H)</b>	1200 x 1000 x 2605 mm (NA), 1200 x 1000 x 2115 mm (EMEA, AP)
<b>Pallet weight</b>	1072.9 lb (NA), 868.3 lb (EMEA, AP)
<b>Pallet weight</b>	487.7 kg (NA), 394.7 kg (EMEA, AP)
<b>Paper handling input, optional</b>	Optional third 550-sheet tray
<b>Paper handling input, standard</b>	100-sheet tray 1, 250-sheet input tray 2; 50-sheet Automatic Document Feeder (ADF)
<b>Paper handling output, standard</b>	150-sheet output bin
<b>Paper trays, maximum</b>	3
<b>Paper trays, standard</b>	2
<b>Plug and play</b>	Auto Wireless Connect; HP Smart App
<b>Power</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>Print Technology</b>	Laser
<b>Print colors</b>	No
<b>Print languages</b>	HP PCL 6, HP PCL 5e, HP postscript level 3 emulation, PDF, URF, Native Office, PWG Raster
<b>Print quality black (normal)</b>	Normal (native 600 x 600 dpi; enhanced up to 4800 x 600 dpi)
<b>Print resolution black (fine lines)</b>	Fine Lines (1200 x 1200 dpi)
<b>Print speed black (Landscape, A5)</b>	Up to 63 ppm
<b>Print speed black (Portrait, A5)</b>	Up to 14 ppm
<b>Print speed duplex (A4)</b>	Up to 31 ipm
<b>Print speed duplex (letter)</b>	Up to 33 ipm
<b>Print speed footnote number (A5)</b>	[9]
<b>Print technology</b>	Laser
<b>Printer Management</b>	HP Printer Assistant, HP Utility (Mac), HP Device Toolbox, HP Web JetAdmin Software, HP JetAdvantage Security Manager, HP SNMP Proxy Agent, HP WS Pro Proxy Agent, Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator)
<b>Printer black pages (MPV black)</b>	1200
<b>Processor speed</b>	1200 MHz

**Product long name specifications** HP LaserJet Pro MFP M428dw - Print, Copy, and Scan; Prints up to 40 ppm (Letter); Scan to email/Folder/ USB/Cloud; Up to 80,000 page duty cycle; 750-4,000 recommended monthly page volume; Gigabit ethernet networking; Dual-band wireless networking; Bluetooth low-energy; Wi-Fi Direct; Auto-duplex printing

**Product short name specifications** HP LaserJet Pro MFP M428dw, Print, Copy, Scan, Email, Scan to email

**Quantity per pallet** 30 (NA), 24 (EMEA,AP)

**RMN number** SHNGC-1801-01

**Recommended media weight (duplex)** 16 to 32 lb

**Recommended media weight (duplex)** 60 to 120 g/m<sup>2</sup>

**Recommended monthly page volume** 750 to 4000<sup>[12]</sup>

**Recommended monthly scan volume** 750 to 4000

**Recommended monthly scan volume note** 750 - 4,000

**Recommended operating humidity range** 30 to 70% RH

**Recommended operating temperature range** 15 to 27°C

**Recommended operating temperature range** 59 to 80.6°F

**Resolution** Up to 1200 x 1200 dpi

**Right margin (A4)** 4 mm

**Safety** IEC 60950-1:2005 +A1:2009+A2:2013/EN 60950-1:2006 +A11:2009+A1:2010+A12:2011+A2:2013; IEC 60825-1:2014/EN 60825-1:2014 (Class 1 Laser/LED Product); IEC 62479:2010/EN 62479:2010;

**Scan resolution, hardware** Flatbed (Up to 1200 x 1200 dpi); ADF (Up to 300 x 300 dpi)

**Scan resolution, optical** Up to 1200 x 1200 dpi

**Scan size (ADF), maximum** 216 x 356 mm

**Scan size (ADF), maximum** 8.5 x 14 in

**Scan size (ADF), minimum** 4 x 6 in

**Scan size (ADF), minimum** 102 x 152 mm

**Scan size, maximum** 216 x 297 mm

**Scan size, maximum** 8.5 x 11.7 in

<b>Security management</b>	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 SNMPv3, 802.1x wireless 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 erase; Automatic firmware updates; Secure Encrypted Print via optional job storage, Compatible with optional HP JetAdvantage Security Manager, IPPS
<b>Software scan file format</b>	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;
<b>Standard media sizes (duplex)</b>	A4; Oficio
<b>Standard media sizes (duplex, imperial)</b>	Letter; Legal
<b>Standard output capacity (envelopes)</b>	Up to 10 envelopes
<b>Storage device and direct print support</b>	USB Printing; Wi-Fi Direct
<b>Storage temperature range</b>	-4 to 104°F
<b>Storage temperature range</b>	-20 to 40°C
<b>Target user and print volume</b>	For teams up to 10 users; Prints up to 4,000 pages/month
<b>Tariff numbers</b>	(AM) 8443310000; (EU) 8443310000; (AP) 84433131
<b>Telecom compliance (fax capability)</b>	Wireless: FCC Title 47 CFR, Part 15 Subpart C & E RSS 247 Issue 1, 2015 & RSS 102 Issue 5, 2015; EU Radio Equipment Directive 2014/53/EU; EN301 489-1 V2.1.1; EN301 489-17 V3.1.1; IEC62311:2007; EN62311:2008; EN300 328 V2.1.1(2.4GHz); EN301 893 V2.1.1(5GHz)
<b>Top key features</b>	Scan to email
<b>Top margin (A4)</b>	5 mm
<b>Twain version</b>	Version 2.3
<b>Typical electricity consumption (TEC) number</b>	1.144 kWh/Week (Blue Angel); 0.4125 kWh/Week (Energy Star 3.0) <sup>[15]</sup>
<b>UNSPSC code</b>	43212110
<b>UPC number</b>	(696) 192018914865; (ABT) 192018914803; (ABY) 192018914810; (ACQ) 192018914827; (B13) 192018914834; (B19) 192018914841; (BAZ) 192018914858; (BGJ) 192018914872
<b>Warm-up time</b>	As fast as 45 sec
<b>Waste electrical and electronic weight</b>	12.6 kg
<b>Web address for additional information</b>	<a href="http://www.hp.com/go/support">http://www.hp.com/go/support</a>

[2] 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.

[3] Toner cartridges designed for distribution and use within a designated region only; will not work outside of designated region.

[11] 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.

[12] 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

[15] TEC is equal to Best TEC. 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 115 V device.

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

[17] In box cartridge yields 3,000 black pages based on ISO/IEC 19752 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see: <http://www.hp.com/go/learnaboutesupplies>. Pages may vary based on customer printing conditions and usage.

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