



HP PageWide Managed Color MFP E77650 Series

HP PageWide delivers a breakthrough low colour cost, maximum uptime, and the strongest security.¹

HP Managed MFPs and printers are optimized for managed environments. Offering increased monthly page volumes and fewer interventions, this portfolio of products can help reduce printing and copying costs. See your HP Authorized Reseller for details.



**HP PageWide Managed
Color MFP E77650dn**



**HP PageWide Managed
Color MFP E77650dns**

Affordable colour printing for every office

- Depend on lasting value. Get the results you expect for a game-changing low cost per colour page.
- Print more pages and replace cartridges less often with optional high-yield cartridges.²
- Print even faster—and save even more per page—by setting this printer to General Office mode.³
- Help keep energy costs down with the most efficient printer in its class.⁴

Minimal interruptions. Maximum uptime

- Minimize interruptions with an HP PageWide Managed MFP designed for the least maintenance in its class.⁵
- Print speeds up to 50% faster than competitors—as fast as 70 ppm in colour and black-and-white.⁶
- Tailor this MFP to the needs of your business with a wide range of paper-handling accessories.
- Scan files directly to Microsoft® Office 365 and SharePoint, plus email, USB, and network folders.⁷

The world's most secure printing¹

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Protect information on the MFP and in transit over the network, and store data on the encrypted hard disk.⁸
- Monitor activity to detect and stop attacks, then automatically reboot with run-time intrusion detection.
- Whitelisting checks firmware during startup to help ensure it's authentic, good code—digitally signed by HP.

Give workgroups the speed they need

- Help workgroups capture every page easily and detect potential errors or missed pages—every time.
- Enter data more quickly and accurately using the pull-out keyboard.
- Help ensure every scanned document is properly oriented, cropped to size, and grayscale-optimized.
- Load up to 200 pages into the automatic document feeder for fast, unattended scanning.

¹ Based on HP review of 2016 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit hp.com/go/PrintersThatProtect. For more information: hp.com/go/printersecurityclaims ² High-yield cartridges are not included in printer purchase; purchase separately. Comparison is based on ISO 24711 cartridge yields for HP 982X series High-Yield Original PageWide Cartridges compared with HP 982A series Original PageWide Cartridges. Learn more at hp.com/go/learnaboutequipment ³ Comparison based on printing in Professional Mode. ⁴ Energy claim based on TEC data reported on energystar.gov as of March 2017. Data normalized to determine energy efficiency of in-class A3 colour laser printers (\$1500-\$2999) and MFPs (\$3000-\$7499) as of February 2017, excluding other HP PageWide products. Subject to device settings. Actual results may vary. ⁵ Fewer service parts claim based on BLI analysis of leading in-class A3 MFPs as of August 2016; calculations use publicly available and/or published manufacturer rated yields for long-life consumables and assume 600,000 pages printed (using a 60% black/40% colour ratio). Learn more at hp.com/go/pagewideclaims ⁶ Comparison of HP PageWide A3 devices with the majority of in-class colour ink/laser MFPs (\$3000-\$7499), and colour ink/laser single function printers (\$1500-\$2999) as of April 2017; market share as reported by IDC as of Q4 2016, excluding other HP PageWide products. HP PageWide speeds based on General Office mode and exclude first page. Learn more at hp.com/go/printerspeeds ⁷ Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see hpconnected.com ⁸ Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at hp.com/go/printsecurity

Product walkaround

HP PageWide Managed Color MFP E77650dn shown



Series at a glance



HP PageWide Managed Color MFP E77650dn (J7Z13A)

- Print, scan, copy
- Print speeds: Up to 50/70 ppm, Professional/General Office mode
- 20.3 cm (8.0 inch) pivoting colour touchscreen
- 200-sheet ADF with single-pass, two-sided scanning and copying up to 11 x 17 inches (A3)
- Scan to email, USB drive, network folders, and Microsoft® SharePoint®



HP PageWide Managed Color MFP E77650dns (Z5G79A)

- Print, scan, copy
- Print speeds: Up to 50/70 ppm, Professional/General Office mode
- 20.3 cm (8.0 inch) pivoting colour touchscreen
- 200-sheet ADF with single-pass, two-sided scanning and copying up to 11 x 17 inches (A3)
- Scan to email, USB drive, network folders, and Microsoft® SharePoint®
- 350-sheet inner finisher with stapler

Optional paper-handling accessories



550-sheet paper tray (P1V16A)

Supports up to 297 x 432 mm (11.7 x 17 inches)



550-sheet paper tray and cabinet (P1V17A)

Supports up to 297 x 432 mm (11.7 x 17 inches)



3x550-sheet paper tray and stand (P1V18A)

Supports up to 297 x 432 mm (11.7 x 17 inches)



4,000-sheet HCI paper tray and stand (P1V19A)

Two 2,000-sheet trays that support up to letter (A4)

Optional	Add up to one	Add up to one	Add up to one	Add up to one
Maximum input capacity³	Up to 1,200 sheets	Up to 1,200 sheets	Up to 2,300 sheets	Up to 4,650 sheets

¹ Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase. ² An administrator must enable the easy-access USB port before use. ³ Purchase of optional paper tray required to reach maximum input capacity.

Top Features

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. Choose from:

Optimized Care (optimum performance and stability): 4 hour Onsite Support, Maintenance Kit Replacement Service, Installation with Network Configuration Service

Standard Care (high level of uptime): Next Business Day Onsite Support, Maintenance Kit Replacement Service, Installation with Network Configuration Service

Basic Care (minimum recommended support): Next Business Day Onsite Support

4 hr Onsite Support: Onsite support within four hours after a service call received within the coverage window

Next Business Day Onsite Support: Onsite service the next business day after the service call is received

Maintenance Kit Replacement Service: Onsite replacement of your printer's maintenance kit including parts, materials, and labor

Installation with Network Configuration Service: Assembly, network configuration, and basic administrator familiarization

For more information about HP Care Pack, HP Contractual, or HP Managed Print Services, visit hp.com/go/printservices



Top Features

Colour printing is within every business' budget with HP PageWide Technology. Print professional-quality colour for a breakthrough low cost—results you expect from HP for an exceptional value you can rely on.

Annoying interruptions and complex maintenance can slow down printing, and ultimately, the pace of business. Avoid pauses in productivity with an HP PageWide device designed for maximum uptime—so you can count on reliable results day in and day out.

Only HP Enterprise printers repair themselves from attacks in real time, with built-in security to help keep your network safe. Automatically monitor threats, detect intrusions, and validate operating software with security offered only by HP.¹

Accelerate workflow, improve accuracy, and easily connect people throughout your organization. Complete high-volume scan jobs super-fast—up to 240 ipm²—and avoid extra steps with a Flow MFP designed for maximum productivity.

Product

J7Z13A	HP PageWide Managed Color MFP E77650dn
Z5G79A	HP PageWide Managed Color MFP E77650dns

Accessories

P1V16A	HP PageWide Managed 550-sheet Paper Tray
P1V17A	HP PageWide Managed 550-sheet Paper Tray and Stand
P1V18A	HP PageWide Managed 3x550-sheet Paper Tray and Stand
P1V19A	HP PageWide Managed 4000-sheet HCI Paper Tray and Stand
B5L29A	HP High-Performance Secure Hard Disk (FIPS Drive) (300GB)
B5L28A	HP Internal USB Ports
B5L31A	HP Foreign Interface Harness
E5K48A	HP 1 GB x32 144-pin (800 MHz) DDR3 SODIMM
J8031A	HP Jetdirect 2900nw Print Server
J8030A	HP Jetdirect 3000w NFC/Wireless Accessory
CC487A	HP LaserJet MFP Analog Fax Accessory 500
J8J96A	Staple Cartridge Kit (dns or zs model only)

Replacement Cartridges and LLC's³

MOK31XC	HP 993XC Black Contract PageWide Cartridge (22,000)
MOK08XC	HP 993XC Cyan Contract PageWide Cartridge (16,000)
MOK12XC	HP 993XC Magenta Contract PageWide Cartridge (16,000)
MOK27XC	HP 993XC Yellow Contract PageWide Cartridge (16,000)
W1B44A	HP PageWide Service Fluid Container (~150,000 pages)
W1B43A	HP PageWide Printhead Wiper Kit (~150,000 pages)
W1B45A	HP PageWide Roller Kit (~150,000 pages)

HP Care Packs

U9RL1E	HP 1-year Next Business Day w/DMR PageWide Color 776xx Managed SVC
U9RL2E	HP 3-year Next Business Day w/DMR PageWide Color 776xx Managed SVC
U9RL4E	HP 5-year Next Business Day w/DMR PageWide Color 776xx Managed SVC
U9RL5E	HP 3-year 4h9x5w/DMR PageWide Color 776xx Managed SVC
U9RL7E	HP 5-year 4h9x5w/DMR PageWide Color 776xx Managed SVC
U9JT2E	HP Installation Service w Network Workgroup Printer

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

Recommended Papers⁴

Z7S68A	HP PageWide Bro GL A3 100 sheets FSC Paper
Z7S67A	HP PageWide Bro GL A4 200 sheets FSC Paper

Please visit hp.com/apac/paper for more details.

Solutions

HP Web Jetadmin: hp.com/go/wja

HP Universal Print Driver: hp.com/go/upd

HP JetAdvantage Security Manager: hp.com/go/securitymanager

To learn more about available infrastructure, management, and workflow solutions, visit hp.com/go/gsc

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

² Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

³ Future firmware updates may support 4608 MB by adding DIMM memory module. ⁴ Available in selected countries only.

HP PageWide Managed Color MFP E77650 Series

Technical specifications	HP PageWide Managed Color MFP E77650dn (J7Z13A)	HP PageWide Managed Color MFP E77650dtn (Z5G79A)
Functions	Print, copy, scan, fax (optional)	
Print		
Duplex print options	Automatic (standard)	
Technology	HP PageWide Technology	
Speed ¹	Black: Up to 70 ppm (General office mode, A4); Up to 50 ppm (Professional mode, A4); Colour: Up to 70 ppm (General Office mode, A4); Up to 50 ppm (Professional mode, A4); Duplex printing: Black/Colour (Professional mode): Up to 35 ppm	
First page out ²	Black (A4, ready): As fast as 7.1 seconds; Colour (A4, ready): As fast as 7.1 seconds	
Resolution	Black (best): Up to 1200 x 1200 optimised dpi from 600 x 600 input dpi (on Unspecified, Plain, HP Premium Presentation Matte, and HP Brochure Matte); Colour (best): Up to 2400 x 1200 optimised dpi from 600 x 600 input dpi (on HP Advanced Photo Papers)	
Languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation; PDF 1.7	
HP ePrint capability	Yes	
Print cartridges	4 (1 each black, cyan, magenta, yellow)	
Printer management	HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP Web JetAdmin Software; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver	
Printer smart software features	HP SureStart; Run-time Intrusion detection; Whitelisting; HP Trusted Platform Module; HP JetAdvantage Security Manager; HP Web Jetadmin; Open Extensibility Platform, FutureSmart Firmware, HP ePrint, Apple AirPrint™, HP Auto-On/Auto-Off technology, HP Color Access Control, HP EasyColor, Front-facing USB printing, store print jobs, HP EasyColor, print preview, automatic two-sided printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, booklet printing, cover pages, tray selection, scaling, Portrait/Landscape orientation, High Quality Grayscale and Black Ink Only, General Office/Professional/Presentation dpi print modes, Optional: HP and third party extensibility solutions; wireless	
Scan		
Type	Flatbed, ADF	
Technology	Charge Coupled Device (CCD) & Contact Image Sensor (CIS)	
Speed	Single-sided (A4): Up to 90 ipm (black and colour); Two-sided (A4): Up to 180 ipm (black and colour)	
Bit depth	24-bit	
Resolution	Hardware: Up to 600 ppi; Optical: Up to 600 dpi; Enhanced: Up to 600 ppi	
Max scanning size	Flatbed: 297 x 432 mm; ADF: 297 x 432 mm; Up to 297 x 864 mm when "long scan size" selected	
Grayscale levels	256	
Input modes	Copy; E-mail; Fax; Save to Network Folder; Save to USB; Save to Device Memory; Save to SharePoint; Open Extensibility Platform (OXP) applications	
File format	JPEG, TIFF, MTIFF, XPS, PDF/A	
Digital sending standard features	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to LAN Fax; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Colour Sense; Auto Crop To Content; Compact PDF	
Copy		
Speed ³	Black: Up to 70 cpm (General office mode, A4); Up to 50 cpm (Professional mode, A4); Colour: Up to 70 cpm (General office mode, A4); Up to 50 cpm (Professional mode, A4)	
First copy out ³	Black (letter): As fast as 9.0 seconds; Colour (letter): As fast as 9.0 seconds	
Resolution	Black (text and Graphics): Up to 600 x 600 dpi; Colour (text and graphics): Up to 600 x 600 dpi	
Max copies	Up to 9,999 copies	
Copier reduce/enlarge	25 to 400%	
Copier setting	Two-sided copying, scalability, image adjustments (darkness, contrast, background cleanup, sharpness), N-up, N or Z-ordering, content orientation, collation, booklet, ID Scan, job build, edge-to-edge, job storage	
Copier smart software features	Auto scale; Reduce/enlarge from scanner glass (25 to 400 percent); Collate; Auto colour detection; Two-sided copying; Image adjustments (darkness, background cleanup, sharpness); Job build	
Fax (Optional)		
Resolution	Black (best): Up to 300 x 300 dpi (400 x 400 dpi for received faxes only); Colour (fine): Up to 300 x 300 dpi (400 x 400 dpi for received faxes only)	
Transmission speed ⁴	Up to 33.6 kbps; 3 sec per page	
Fax features	Faxing: Optional; Faxing options (ADF): Simultaneous Two-Sided; Auto-Redialling: Yes; Fax delayed sending: No; Distinctive ring detection supported: No; Fax forwarding supported: Yes; Fax polling supported: Yes (poll to receive only); Auto fax reduction supported: Yes; Fax telephone mode supported: No; Junk barrier supported: Yes; PC interface supported: Yes; Fax broadcasting, max locations: 210; Telephone handset supported: No	
Display	20.3 cm (8.0 in) touchscreen, XVA Colour Graphic Display (CGD)	
Duty cycle (monthly, A4) ⁵	Up to 200,000 pages	
Recommended monthly page volume ⁶	2,500 to 50,000 pages	
Media		
Custom sizes	Tray 1: 99.1 x 127 to 304.8 x 457.2 mm; Tray 2-5: 210.1 x 148.1 to 297.2 x 431.8 mm; HCI Trays 3 & 4: A4 & Letter Only	
Recommended weights	60 to 220 g/m ² , 300 g/m ² Photo Paper Only	
Types	Paper (Plain, Inkjet, Inkjet Brochure/Glossy), Photo Paper, Envelopes, Labels, Cards	
Paper handling	Input (standard): 100-sheet multipurpose tray, 550-sheet input tray; Input (optional): 1x550/tray (A3/A4), 1x550/stand (A3/A4), 3x550/stand (A3/A4), HCI (2x2000 sheet A4); Output (standard): 500-sheet output bin	Input (standard): 100-sheet multipurpose tray, 550-sheet input tray; Input (optional): 1x550/tray (A3/A4), 1x550/stand (A3/A4), 3x550/stand (A3/A4), HCI (2x2000 sheet A4); Output (standard): 500-sheet output bin; 350-sheet stapler stacker
Memory⁹	Standard/Maximum: 3584 MB	
Processor speed	1.2 GHz	
Operating system compatibility	Android, Linux Boss (5.0), Linux Debian (7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6), Linux Fedora (22, 23, 24), Linux Mint (17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2, 42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10), OS macOS 10.12 Sierra, OS X 10.10 Yosemite, OS X 10.11 El Capitan, UNIX, Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows Vista all 32bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)	
Minimum system requirements	PC: Windows® 10, 8.1, 8, 7: 1 GHz 32-bit or 64-bit processor, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Microsoft® Internet Explorer. Windows Vista®: 800 MHz processor (32-bit only), 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Microsoft® Internet Explorer 8. Windows® XP SP3 or higher (32-bit only): any Intel® Pentium® II, Celeron® or 233 MHz compatible processor, 850 MB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Microsoft® Internet Explorer 8; Mac: Apple® OS X v10.12 Sierra, OS X v10.11 El Capitan, OS X v10.10 Yosemite, minimum 1.3 GB available HD space; Internet required; USB port	
Connectivity		
Connectivity (Standard)	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket	
Wireless capability	Optional, enabled with purchase of HP Jetdirect 3000w NFC/Wireless Accessory	
Mobile printing capability	HP ePrint, Apple AirPrint™, Google Cloud Print	
Network capabilities	Via HP Jetdirect Ethernet embedded print server (standard) supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec (standard)	
Supported network protocols	IPv4/IPv6: Apple Bonjour Compatible (Mac OS v10.2.4 or higher), 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	
Dimensions (W x D x H)	Operating: 813 x 616 x 680 mm (32 x 24.25 x 26.75 in); Maximum: 896 x 718 x 680 mm (35.25 x 28.25 x 26.75 in)	Operating: 813 x 616 x 791 mm (32 x 24.25 x 31.125 in); Maximum: 896 x 718 x 791 mm (35.25 x 28.25 x 31.125 in)
Weight	69 kg (153 lb)	82 kg (181 lb)
Environmental		

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Technical specifications	HP PageWide Managed Color MFP E77650dn (J7Z13A)	HP PageWide Managed Color MFP E77650dns (Z5G79A)
Operating environment	Operating humidity range: 10 to 80% RH; Recommended operating humidity range: 30 to 70% RH; Operating temperature range: 15 to 30° C (59 to 86° F); Recommended operating temperature range: 17 to 25° C (63 to 77° F); Non-operating humidity range: 10 to 80% RH; Storage before initial setup (Non-Purged): -40 to 60° C (-40 to 140° F); Storage after initial setup (Purged): 0 to 60° C (32 to 140° F)	
Acoustic	Acoustic power emissions: 6.7 B(A); Acoustic power emissions (active copy): 6.9 B(A); Acoustic power emissions (ready): Inaudible; Acoustic pressure emissions: 53 dB(A) (printing at 51 ppm); Acoustic pressure emissions Bystander (ready): Inaudible	
Power specifications	Power supply type: Internal (Built-in) power supply; Power supply required: Input voltage: 100 to 240 VAC, 50/60 Hz; Power consumption¹: 660 watts (print/copy), 42 watts (ready), 1.6 watts (sleep), 0.2 watts (auto-off), 0.2 watts (off); Typical Electricity Consumption (TEC)²: BA: 1.97 kWh/Week; ES: 2.03 kWh/Week; Blue Angel (Sleep mode): Test 2 (Blue Angel); Blue Angel (Normal mode): Test 3 (Blue Angel); Energy-saving features: HP Auto-On/Auto-Off Technology	
Software included	HP Connected, HP Device Experience (DXP), HP PCL 6 Printer Driver, HP Software Installer/Uninstaller, Mac OS Welcome Screen (Directs users to 123.HP.com or OS App Source for printer software), Online user manuals	
Warranty	90 days parts only warranty. Warranty and support options vary by product, country and local legal requirements. Go to hp.com/support to learn about HP award winning service and support options in your region.	
What's in the box	HP PageWide Managed Color MFP E77650dn; HP Setup Ink Cartridges (yield after setup ~8,000 pages CMY and 10,000 K); Installation guide, Support flyer; documentation on CD-ROM; Power cord	HP PageWide Managed Color MFP E77650dns; HP Setup Ink Cartridges (yield after setup ~8,000 pages CMY and 10,000 K); Installation guide, Support flyer; documentation on CD-ROM; Power cord
Safety and regulatory compliance	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013; IEC 60950-1:2005 + A1:2009 + A2:2013; EN 62471:2008; IEC 62471:2010; EN 62479:2010; IEC 62479:2010; China CCC; GS; UL Listed	
Electromagnetic emission standard	CISPR 22:2008 Class A, CISPR 32:2012 Class A, EN 55032:2012 Class A, FCC CFR 47 Part 15 Class A, ICES-003 Issue 6 Class A, EN 61000-3-3:2013, EN 61000-3-2:2014	

¹ ISO speeds measured using ISO/IEC 24734. Excludes first page or first set of ISO test pages. For details see hp.com/go/printerclaims ² Exact speed varies depending on the system configuration, software application, driver and document complexity. ³ First Copy Out and Copy Speed measured using ISO/IEC 29183, 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. ⁴ Based on standard ITU-T test image #1 at standard resolution and MMR encoding, the HP fax device can transmit at 3 sec/page for V.34 and 6 sec/page for V.17 ⁵ 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 Pagewide devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups. ⁶ 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. ⁷ 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 115V device. ⁸ Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115V device. ⁹ Future firmware updates may support 4608 MB (dn/dns only), 6656 MB (z, zs only) by adding DIMM memory module

To learn more, visit hp.com

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