



# HP PageWide Enterprise Color MFP 780-785 series

HP PageWide Enterprise delivers the lowest colour cost,<sup>1</sup> maximum uptime, and strongest security.<sup>2</sup>

Modern business demands forward-thinking technology—it's why HP engineered the next generation of HP PageWide Enterprise to deliver a competitive edge from every angle: lowest colour cost,<sup>1</sup> maximum uptime, and the industry's strongest security.<sup>2</sup>



HP PageWide Enterprise  
Color MFP 780dn



HP PageWide Enterprise  
Color Flow MFP 785zs

### The lowest cost for colour<sup>1</sup>

- Get the quality you expect with HP PageWide Technology that delivers the lowest cost per colour page.<sup>1</sup>
- Print more pages and replace cartridges less often with optional high-yield cartridges.<sup>3</sup>
- Print even faster—and save even more per page—by setting this printer to General Office mode.<sup>4</sup>
- Help keep energy costs down with the most efficient MFP in its class.<sup>5</sup>

### Minimal interruptions. Maximum uptime

- Minimize interruptions with an HP PageWide device designed for the least maintenance in its class.<sup>6</sup>
- Print speeds up to 50% faster than competitors—as fast as 75 ppm in colour and black-and-white.<sup>7</sup>
- 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.<sup>8</sup>

### The world's most secure printing<sup>2</sup>

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Protect information on the printer and in transit over the network and store data on an encrypted hard disk.<sup>9</sup>
- 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.

<sup>1</sup> Lowest cost per colour page claim applies to devices that are not sold under contract: 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 January/February 2017; market share as reported by IDC as of Q4 2016. Cost per page (CPP) reported by gap intelligence Pricing & Promotions Report January/February 2017, comparisons for devices/supplies not sold under contract are based on published specifications of the manufacturers' highest-capacity cartridges, inclusive of long life consumables and page yield. Average HP yield based on ISO/IEC 24711 and continuous printing in default mode. Actual yield varies based on content of printed pages and other factors. For more information, see [hp.com/go/learnaboutsups](http://hp.com/go/learnaboutsups) and [hp.com/go/PageWideClaims](http://hp.com/go/PageWideClaims) <sup>2</sup> 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](http://hp.com/go/PrintersThatProtect). For more information: [hp.com/go/printersecurityclaims](http://hp.com/go/printersecurityclaims) <sup>3</sup> 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/learnaboutsups](http://hp.com/go/learnaboutsups) <sup>4</sup> Comparison based on printing in Professional Mode. <sup>5</sup> Energy claim based on TEC data reported on [energystar.gov](http://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. <sup>6</sup> 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](http://hp.com/go/pagewideclaims) <sup>7</sup> 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](http://hp.com/go/printerspeeds) <sup>8</sup> Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see [hpconnected.com](http://hpconnected.com) <sup>9</sup> Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at [hp.com/go/printsecurity](http://hp.com/go/printsecurity)

## Product walkaround



## Series at a glance



HP PageWide Enterprise Color MFP 780dn



HP PageWide Enterprise Color Flow MFP 785zs

Part number	J7Z09A	J7Z12A
Print speeds, black and colour, letter and A4 <sup>3</sup>	Up to 45/65 ppm, Professional/General Office mode	Up to 55/75 ppm, Professional/General Office mode
Fax capabilities	Optional	✓
100-sheet tray 1, 550-sheet tray 2	✓	✓
550-sheet Paper Tray and Stand <sup>4</sup>	Optional	Optional
550-sheet Paper Tray and Stand <sup>4</sup>	Optional	Optional
3x550-sheet Paper Tray and Stand <sup>4</sup>	Optional	✓
4,000-sheet HCl Tray and Stand <sup>4</sup>	Optional	Optional
Advanced workflow features including pull-out keyboard, OCR, HP EveryPage, and auto-orientation	Not available	✓
Wireless networking	Optional wireless direct <sup>8</sup>	Built-in Wi-Fi Direct <sup>5</sup>
Bluetooth® Low Energy <sup>6</sup>	Not available	✓
350-sheet inner finisher with stapler	Not available	✓

## Optional paper-handling accessories



550-sheet Paper Tray (A7W99A)

Supports up to 297 x 432 mm



550-sheet Paper Tray and Stand (W1B50A)

Supports up to 297 x 432 mm



3x550-sheet Paper Tray and Stand (W1B51A)

Supports up to 297 x 432 mm



4,000-sheet HCl paper tray and stand (P1V19D)

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

Standard <sup>10</sup>	Flow MFP 785zs <sup>12</sup>
Optional <sup>10</sup>	Optional <sup>10</sup>
Add up to one: all models	Add up to one: all models
Maximum device input with accessory <sup>11</sup>	Maximum device input with accessory <sup>11</sup>
1,200 sheets	1,200 sheets
1,200 sheets	2,300 sheets
1,200 sheets	4,650 sheets

<sup>1</sup> Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase. <sup>2</sup> An administrator must enable the easy-access USB port before use. <sup>3</sup> The HP PageWide Enterprise Color Flow MFP 785 series prints up to 55/75 ppm, A4 and letter, simplex (Professional mode/General Office mode). ISO speeds measured using ISO/IEC 24734. Excludes first page or first set of ISO test pages. For details see [hp.com/go/printerclaims](http://hp.com/go/printerclaims). <sup>4</sup> The HP PageWide Enterprise Color MFP 785 series supports paper sizes up to 305 x 457 mm (12 x 18 inches) in the 100-sheet multipurpose tray, which comes standard with both models. Both models also include one standard 550-sheet tray that supports up to 297 x 432 mm (11.7 x 17 inches). The Flow MFP 785zs also comes standard with a 3x550-sheet paper tray and stand that supports up to 297 x 432 mm (11.7 x 17 inches). The 785zs cannot add additional paper trays. The MFP 785f can add one of the following paper-handling accessories: 550-sheet paper tray, 550-sheet paper tray and stand, 3x550-sheet paper tray and stand, or 4,000-sheet HCl paper tray and stand. The 550-sheet trays support up to 297 x 432 mm (11.7 x 17 inches). The optional HCl tray supports up to A4 (letter) size. <sup>5</sup> Wi-Fi Direct printing is embedded in the HP PageWide Enterprise Color Flow MFP 785zs model. All other models can add wireless direct by purchasing the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting). Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®. <sup>6</sup> Bluetooth is a trademark owned by its proprietor and used by HP Inc. under license. <sup>7</sup> Mobile device needs to be connected directly to the signal of a Wi-Fi Direct supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting). <sup>8</sup> The HP PageWide Enterprise Color MFP 780 series and Flow MFP 785f models can add wireless networking with the purchase of the optional HP Jetdirect 2900nw Print Server. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections. <sup>9</sup> The pull-out keyboard and HP EveryPage are only available on the HP PageWide Enterprise Color Flow MFP 785f and 785zs models. <sup>10</sup> The HP PageWide Enterprise Color MFP 780, 785 series supports paper sizes up to 305 x 457 mm in the 100-sheet multipurpose tray, which comes standard with all models. All models also include one standard 550-sheet tray that supports up to 297 x 432 mm. The Flow MFP 785zs also comes standard with the 3x550-sheet paper tray and stand that supports up to 297 x 432 mm, but optional accessories can be purchased and used in place of 3x550-sheet Paper Tray and Stand. All other models can add one of the following paper-handling accessories: 550-sheet paper tray, 550-sheet paper tray and stand, 3x550-sheet paper tray and stand, or 4,000-sheet HCl paper tray and stand. The 550-sheet trays support up to 297 x 432 mm. The optional HCl tray supports up to A4 size. The maximum number of trays that the HP PageWide Enterprise Color MFP 780, 785 series can support is five. <sup>11</sup> Purchase of optional paper tray required to reach maximum input capacity. <sup>12</sup> The 3x550-sheet Paper Tray and Stand comes standard with the HP PageWide Enterprise Flow MFP 785zs. Optional accessories can be purchased and used in place of 3x550-sheet Paper Tray and Stand. Only one accessory Tray/Stand can be used

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



<sup>1</sup> Lowest cost per colour page claim applies to devices that are not sold under contract: 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 January/February 2017; market share as reported by IDC as of Q4 2016. Cost per page (CPP) reported by gap intelligence Pricing & Promotions Report January/February 2017, comparisons for devices/supplies not sold under contract are based on published specifications of the manufacturers' highest-capacity cartridges, inclusive of long life consumables and page yield. Average HP yield based on ISO/IEC 24711 and continuous printing in default mode. Actual yield varies based on content of printed pages and other factors. For more information, see [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies) and [hp.com/go/PageWideClaims](http://hp.com/go/PageWideClaims). <sup>2</sup> 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](http://hp.com/go/PrintersThatProtect). For more information: [hp.com/go/printersecurityclaims](http://hp.com/go/printersecurityclaims). <sup>3</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. <sup>4</sup> Available in selected countries only. <sup>5</sup> Average colour composite (C/M/Y) and black declared yields based on ISO/IEC 24711 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies)

## Top Features

Colour printing is within every business' budget with HP PageWide Technology. Get the lowest cost per colour page<sup>1</sup> for professional-quality results you expect from HP—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.<sup>2</sup>

Accelerate workflow, improve accuracy, and easily connect people throughout your organization. Complete high-volume scan jobs super-fast—up to 240 ipm<sup>3</sup>—and avoid extra steps with a Flow MFP designed for maximum productivity.

### Product

J7Z09A	HP PageWide Enterprise Color MFP 780dn
J7Z12A	HP PageWide Enterprise Color Flow MFP 785zs

### Accessories (Optional)

A7W99A	HP PageWide 550-sheet Paper Tray
W1B50A	HP PageWide 550-sheet Paper Tray and Stand
W1B51A	HP PageWide 3x550-sheet Paper Tray and Stand
W1B52A	HP PageWide 4000-sheet HCl Paper Tray and Stand
B5L29A	HP High-Performance Secure Hard Disk
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 (zs model only)

### Replacement Cartridges and LLC's<sup>5</sup>

T0B26A	HP 982A Black Original PageWide Cartridge (~10,000 pages)
T0B30A	HP 982X High Yield Black Original PageWide Cartridge (~20,000 pages)
T0B23A	HP 982A Cyan Original PageWide Cartridge (~8,000 pages)
T0B27A	HP 982X High Yield Cyan Original PageWide Cartridge (~16,000 pages)
T0B25A	HP 982A Yellow Original PageWide Cartridge (~8,000 pages)
T0B29A	HP 982X High Yield Yellow Original PageWide Cartridge (~16,000 pages)
T0B24A	HP 982A Magenta Original PageWide Cartridge (~8,000 pages)
T0B28A	HP 982X High Yield Magenta Original PageWide Cartridge (~16,000 pages)
W1B43A	HP PageWide Printhead Wiper Kit (~150,000 pages)
W1B44A	HP PageWide Service Fluid Container (~150,000 pages)
W1B45A	HP PageWide Roller Kit (~150,000 pages)
J8J95A	HP PageWide ADF Maintenance Kit (~150,000 pages)
J8J96A	HP Staple Cartridge Refill (5,000 staples)

### HP Care Packs

U9RJ6E	HP 3-year Next Business Day w/DMR PageWide Color 78x SVC
U9RJ8E	HP 5-year Next Business Day w/DMR PageWide Color 78x SVC
U9RJ9E	HP 3-year 4h 9x5 w/DMR PageWide Color 78x SVC
U9RK1E	HP 5-year 4h 9x5 w/DMR PageWide Color 78x 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/cp](http://hp.com/go/cp)

### Recommended Papers<sup>4</sup>

C6818A	HP Professional Inkjet Paper, Glossy, A4, 50 sheets, 180 gsm
Q6593A	HP Professional Inkjet Paper, Matte, A4, 200 sheets, 120 gsm
Q6594A	HP Professional Inkjet Paper, Matte, A3, 100 sheets, 120 gsm

Please visit [hp.com/apac/paper](http://hp.com/apac/paper) for more details.

### HP SureSupply<sup>4</sup>

Discover how HP SureSupply redefines convenience in purchasing printer cartridge supplies online. To order online, please visit [hp.com/apac/oac](http://hp.com/apac/oac) for more details.<sup>4</sup>

### HP Order-a-Cartridge

Call HP's Order-a-Cartridge<sup>4</sup> service and have them conveniently delivered to your doorstep.

China	800 820 0851/400 820 0851
India	1800 3003 3003
Korea	080 703 0700

### Solutions

HP Web Jetadmin: [hp.com/go/wja](http://hp.com/go/wja)

HP Universal Print Driver: [hp.com/go/upd](http://hp.com/go/upd)

HP JetAdvantage Security Manager: [hp.com/go/securitymanager](http://hp.com/go/securitymanager)

To learn more about available infrastructure, management, and workflow solutions, visit [hp.com/go/gsc](http://hp.com/go/gsc)

# HP PageWide Enterprise Color MFP 780-785 series

Technical specifications	HP PageWide Enterprise Color MFP 780dn (J7Z09A)	HP PageWide Enterprise Color Flow MFP 785zs (J7Z12A)
<b>Functions</b>	Print, copy, scan, fax (optional) - Supports up to A3 size	Print, copy, scan, fax - Supports up to A3 size
<b>Print</b>		
Duplex print options	Automatic (standard)	
Technology	HP PageWide Technology	
Speed <sup>1</sup>	<b>Black:</b> Up to 65 ppm (General office mode, A4); Up to 45 ppm (Professional mode, A4); <b>Colour:</b> Up to 65 ppm (General Office mode, A4); Up to 45 ppm (Professional mode, A4); <b>Duplex printing:</b> Black/Colour (Professional mode): Up to 31 ppm	<b>Black:</b> Up to 75 ppm (General office mode, A4); Up to 55 ppm (Professional mode, A4); <b>Colour:</b> Up to 75 ppm (General Office mode, A4); Up to 55 ppm (Professional mode, A4); <b>Duplex printing:</b> Black/Colour (Professional mode): Up to 38 ppm
First page out <sup>2</sup>	<b>Black (A4, ready):</b> As fast as 7.1 seconds; <b>Colour (A4, ready):</b> As fast as 7.1 seconds	
Resolution	<b>Black (best):</b> Up to 1200 x 1200 optimised dpi from 600 x 600 input dpi (on Unspecified, Plain, HP Premium Presentation Matte, and HP Brochure Matte); <b>Colour (best):</b> 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	
<b>Scan</b>		
Type	Flatbed, ADF	
Technology	Charge Coupled Device (CCD) & Contact Image Sensor (CIS)	
Speed	<b>Single-sided (A4):</b> Up to 90 ipm (black and colour); <b>Two-sided (A4):</b> Up to 180 ipm (black and colour)	<b>Single-sided (A4):</b> Up to 120 ipm (black and colour); <b>Two-sided (A4):</b> Up to 240 ipm (black and colour)
Resolution	<b>Hardware:</b> Up to 600 ppi; <b>Optical:</b> Up to 600 dpi; <b>Enhanced:</b> Up to 600 ppi	
Max scanning size	<b>Flatbed:</b> 297 x 432 mm; <b>ADF:</b> 297 x 432 mm; Up to 297 x 1000 mm when "long scan size" selected	
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	
Grayscale levels	256	
File format	PDF, JPEG, TIFF, MTIFF, XPS, PDF/A	Digital Send: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A, TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Scan to easy access USB: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A, TEXT (OCR), Unicode TEXT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Print from easy access USB: PDF, PS, Print Ready files (.lprn, .pcl, .cht)
Scanner advanced features	Optimize text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect colour; Edge Erase; Job notification; Blank page suppression; HP Quick Sets	Optimize text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect colour; Edge Erase; Job notification; Blank page suppression; HP Quick Sets; HP EveryPage; Auto orientation; Embedded Optical Character Recognition (OCR), Auto crop to page; Auto-tone
Digital sending standard features	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Colour Sense; Auto Crop To Content; Compact PDF	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to LAN Fax; Send to Internet Fax; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Colour Sense; Auto Crop To Content; Compact PDF
<b>Copy</b>		
Speed <sup>3</sup>	<b>Black:</b> Up to 45 cpm (A4); <b>Colour:</b> Up to 45 cpm (A4)	<b>Black:</b> Up to 55 cpm (A4); <b>Colour:</b> Up to 55 cpm (A4)
First copy out <sup>3</sup>	<b>Black (letter):</b> As fast as 9.4 seconds; <b>Colour (letter):</b> As fast as 9.4 seconds	
Resolution	<b>Black (text and Graphics):</b> Up to 600 x 600 dpi; <b>Colour (text and graphics):</b> 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	
<b>Fax</b>		
Resolution	Optional	<b>Black (best):</b> Up to 300 x 300 dpi (400 x 400 dpi for received faxes only); <b>Colour (fine):</b> Up to 300 x 300 dpi (400 x 400 dpi for received faxes only)
Transmission speed <sup>4</sup>	Optional	Up to 33.6 kbps; 3 sec per page
Fax features	Optional	<b>Faxing:</b> Yes; <b>Faxing options (ADF):</b> Simultaneous Two-Sided; <b>Auto-Redialling:</b> Yes; <b>Fax delayed sending:</b> No; <b>Distinctive ring detection supported:</b> No; <b>Fax forwarding supported:</b> Yes; <b>Fax polling supported:</b> Yes (poll to receive only); <b>Auto fax reduction supported:</b> Yes; <b>Fax telephone mode supported:</b> No; <b>Junk barrier supported:</b> Yes; <b>PC interface supported:</b> Yes; <b>Fax broadcasting, max locations:</b> 210; <b>Telephone handset supported:</b> No
<b>Display</b>		
Duty cycle (monthly, A4) <sup>5</sup>	Up to 100,000 pages	Up to 125,000 pages
Recommended monthly page volume <sup>6</sup>	2,500 to 20,000 pages	2,500 to 25,000 pages
<b>Media</b>		
Custom sizes	<b>Tray 1:</b> 99.1 x 127 to 304.8 x 457.2 mm; <b>Tray 2-5:</b> 210.1 x 148.1 to 297.2 x 431.8 mm; <b>HCI Trays 3 &amp; 4:</b> A4 & Letter Only	
Recommended Weights	60 to 220 g/m <sup>2</sup> ; 300 g/m <sup>2</sup> Photo Paper Only	
Types	Paper (Plain, Inkjet, Inkjet Brochure/Glossy), Photo Paper, Envelopes, Labels, Cards	
Paper handling	<b>Input (standard):</b> 100-sheet multipurpose tray, 550-sheet input tray; <b>Input (optional):</b> 1x550/tray (A3/A4), 1x550/stand (A3/A4), 3x550/stand (A3/A4), HCI (2x2000 sheet A4); <b>Output (standard):</b> 500-sheet output bin	<b>Input (standard):</b> 100-sheet multipurpose tray, 4 x 550-sheet input tray; <b>Input (optional):</b> 1x550/tray (A3/A4), 1x550/stand (A3/A4), HCI (2x2000 sheet A4); <b>Output (standard):</b> 500-sheet output bin, 350-sheet stapler stacker
Memory <sup>7</sup>	<b>Standard/Maximum:</b> 3584 MB	<b>Standard/Maximum:</b> 5632 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	<b>PC:</b> 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; <b>Mac:</b> 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	

# HP PageWide Enterprise Color MFP 780-785 series

Technical specifications	HP PageWide Enterprise Color MFP 780dn (J7Z09A)	HP PageWide Enterprise Color Flow MFP 785zs (J7Z12A)
<b>Connectivity</b>		
Connectivity (standard)	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 RJ-11 modem port/phone line	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 Wireless 802.11b/g/n; 1 Bluetooth Low Energy; 1 RJ-11 modem port/phone line, Fax
Wireless capability	Optional, enabled with purchase of HP Jetdirect 3000w NFC/Wireless Accessory	Yes, built-in WiFi 802.11b/g/n
Mobile printing capability	<b>Standard:</b> HP ePrint, Apple AirPrint, Mopria-certified, Google Cloud Print™ 2.0; <b>Optional:</b> Wireless direct printing and NFC touch-to-print (with purchase of HP Jetdirect 3000w NFC/Wireless Accessory)	<b>Standard:</b> HP ePrint, Apple AirPrint, Mopria-certified, Google Cloud Print™ 2.0; <b>Optional:</b> Wireless direct printing and NFC touch-to-print (with purchase of HP Jetdirect 3000w NFC/Wireless Accessory), Wi-Fi Direct and Bluetooth Low Energy
Network capabilities	<b>Standard:</b> via HP Jetdirect Ethernet embedded print server supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec; <b>Optional:</b> 802.11a/b/g/n wireless networking (with purchase of optional HP Jetdirect 2900nw Print Server)	<b>Standard:</b> via HP Jetdirect Ethernet embedded print server supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec; <b>Optional:</b> 802.11a/b/g/n wireless networking (with purchase of optional HP Jetdirect 2900nw Print Server), 802.11b/g/n wireless networking
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, SLIP, Telnet, IGMPv2, BOOTP/DHCP, WINS, IP Direct Mode, WS Print	
Dimensions (W x D x H)	<b>Operating:</b> 813 x 591 x 458 mm (32 x 23.25 x 18 in); <b>Maximum:</b> 896 x 591 x 534 mm (35.25 x 23.25 x 21 in)	<b>Operating:</b> 813 x 616 x 1223 mm (32 x 24.25 x 48.125 in); <b>Maximum:</b> 896 x 718 x 1223 mm (35.25 x 28.25 x 48.125 in)
Weight	69 kg (153 lb)	123 kg (272 lb)
<b>Environmental</b>		
Operating environment	<b>Operating humidity range:</b> 10 to 80% RH; <b>Recommended operating humidity range:</b> 30 to 70% RH; <b>Operating temperature range:</b> 15 to 30° C (59 to 86° F); <b>Recommended operating temperature range:</b> 17 to 25° C (63 to 77° F); <b>Non-operating humidity range:</b> 10 to 80% RH; <b>Storage before initial setup (Non-Purged):</b> -40 to 60° C (-40 to 140° F); <b>Storage after initial setup (Purged):</b> 0 to 60° C (32 to 140° F)	
Acoustics	<b>Acoustic power emissions:</b> 6.7 B(A); <b>Acoustic power emissions (active copy):</b> 6.9 B(A); <b>Acoustic power emissions (ready):</b> Inaudible; <b>Acoustic pressure emissions:</b> 53 dB(A) (printing at 46 ppm); <b>Acoustic pressure emissions bystander (ready):</b> Inaudible; <b>Acoustic power emissions (active scan):</b> 7.1 B(A) (scanning at 114 ppm with ADF running); <b>Acoustic pressure emissions bystander (active scan):</b> 56 dB(A) (scanning at 114 ppm with ADF running)	<b>Acoustic power emissions:</b> 6.6 B(A); <b>Acoustic power emissions (active copy):</b> 6.9 B(A); <b>Acoustic power emissions (ready):</b> Inaudible; <b>Acoustic pressure emissions:</b> 51 dB(A) (printing at 56 ppm); <b>Acoustic pressure emissions bystander (ready):</b> Inaudible; <b>Acoustic power emissions (active scan):</b> 7.3 B(A) (scanning at 129 ppm with ADF running); <b>Acoustic pressure emissions bystander (active scan):</b> 58 dB(A) (scanning at 129 ppm with ADF running)
Power specifications	<b>Power supply type:</b> Internal (Built-in) power supply; <b>Power supply required:</b> Input voltage: 100 to 240 VAC, 50/60 Hz; <b>Power consumption<sup>1</sup>:</b> Printing/copying: 660 watts; Ready: 42 watts; Sleep: 1.4 watts; Auto-Off/Manual On: 0.2 watts; Manual Off: 0.2 watts; <b>Typical Electricity Consumption (TEC)<sup>2</sup>:</b> BA: 1.97 kWh/Week; ES: 1.61 kWh/Week; <b>Energy-saving features:</b> HP Auto-On/Auto-Off Technology	<b>Power supply type:</b> Internal (Built-in) power supply; <b>Power supply required:</b> Input voltage: 100 to 240 VAC, 50/60 Hz; <b>Power consumption<sup>1</sup>:</b> Printing/copying: 660 watts; Ready: 42 watts; Sleep: 1.6 watts; Auto-Off/Manual On: 0.2 watts; Manual Off: 0.2 watts; <b>Typical Electricity Consumption (TEC)<sup>2</sup>:</b> BA: 1.96 kWh/Week; ES: 2.02 kWh/Week; <b>Energy-saving features:</b> 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 <a href="http://123.HP.com">123.HP.com</a> or OS App Source for printer software), Online user manuals	
Warranty	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. 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 4G)	
What's in the box	HP PageWide Enterprise Color MFP 780dn; 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 Enterprise Color Flow MFP 785zs; HP Setup Ink Cartridges (yield after setup ~8000 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; Other safety approvals as required by individual countries	
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; Other EMC approvals as required by individual countries	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, EN 301 489-1 v2.1.1, EN 301 489-1 v3.1.1; Other EMC approvals as required by individual countries

<sup>1</sup> ISO speeds measured using ISO/IEC 24734. Excludes first page or first set of ISO test pages. For details see [hp.com/go/printerclaims](http://hp.com/go/printerclaims) <sup>2</sup> Exact speed varies depending on the system configuration, software application, driver and document complexity. <sup>3</sup> 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](http://hp.com/go/printerclaims). Exact speed varies depending on the system configuration, software application, driver, and document complexity. <sup>4</sup> 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 <sup>5</sup> 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>6</sup> HP recommends that the number of print pages per month be within the stated range for optimum device performance. <sup>7</sup> Future firmware updates may support 4608 MB by adding DIMM memory module. <sup>8</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 115V device. <sup>9</sup> Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled.

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