Data sheet

HP Color LaserJet Enterprise MFP M682 series

This HP Color LaserJet with JetIntelligence merges performance, energy efficiency, and security.[1]

This HP Color LaserJet MFP with JetIntelligence combines exceptional performance and energy efficiency with professional-quality documents right when you need them—all while protecting your network with the industry's deepest security.[1]

HP Color LaserJet Enterprise Flow MFP M682z

The world's most secure printing[1]
- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Run-time intrusion detection continually monitors to detect and stop attacks, then automatically reboots.
- Centralize control of your printing environment with HP Web Jetadmin—and help build business efficiency.[3]
- Give workgroups what they need to succeed. Easily choose and deploy over 180 HP and third-party solutions.

High speed performance meets energy efficiency
- Scanning is now faster than ever; duplex scan speeds up to 180 ipm. Scan to SharePoint and more.[8]
- This MFP wakes up fast and prints your first page faster—in as quickly as 12.5 seconds.[9]
- This MFP uses exceptionally low amounts of energy thanks to its innovative design and toner technology.[6]
- Paper handling options include a wheeled stand and 550-sheet input feeder for paper sizes 4 x 6" to legal .

More Pages, Performance, and Protection[5]
- ColorSphere3 toner formulation, combined with an automatic media sensor, help provide leading print quality
- Original HP Toner cartridges with JetIntelligence supply 39% more pages per color cartridge vs predecessor.[5]
- Help retain the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
- Spend less time replacing toner, and more on business. Choose high-yield toner cartridges.[7]
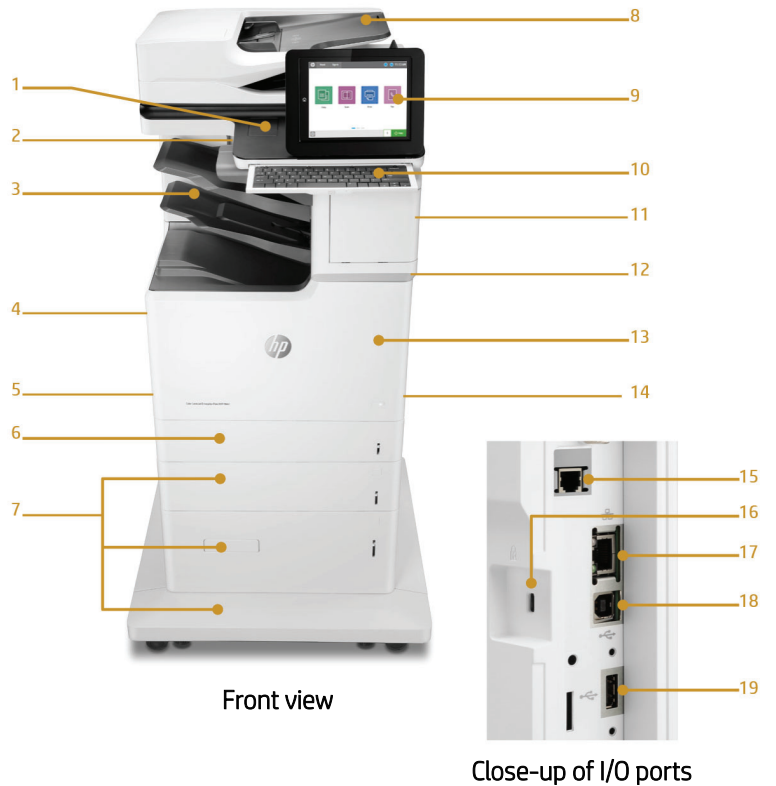
Give workgroups the speed they need
- Help workgroups capture every page easily and detect potential errors or missed pages—every time.
- Enter data more quickly and accurately using the pull-out keyboard.
- Help ensure every scanned document is properly oriented, cropped to size, and grayscale-optimized.
- Load up to 150 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] Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at hp.com/go/printsecurity. [3] HP Web Jetadmin is available for download at no additional charge at hp.com/go/webjetadmin. [4] 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. [5] More pages versus predecessor cartridges claim based on page-yield comparison of HP 653X High Yield Color Original LaserJet Toner Cartridges with HP 657X High Yield Color Original LaserJet Toner Cartridges. For more information, see hp.com/go/learnaboutsupplies [6] Energy claim based on TEC data reported on energystar.gov as of January 2017. Data normalized to determine energy efficiency of in-class laser printers with published speed of 50 to 60 ppm. Subject to device settings. Actual results may vary. [7] HP 657X High Yield Original LaserJet Toner Cartridges not included; please purchase separately. [8] Scan speed measured from ADF at default 300 dpi (black-and-white, grayscale, and color). Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. [9] Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep.

HP Color LaserJet Enterprise Flow MFP M682z

Product walkaround

1. Hardware Integration Pocket[1]
2. Easy-access USB port[2]
3. 1,000-sheet 3-bin stapler/stacker with offset job printing (Flow z models only)
4. Built-in automatic two-sided printing
5. HP High-Performance Secure Hard Disk
6. 550-sheet tray 2
7. 1x550-sheet/2,000-sheet HCI feeder and stand[3]
8. 150-sheet ADF with single-pass, two-sided scanning and HP EveryPage[4]
9. 8.0-inch (20.3 cm) icon-based color touchscreen
10. Pull-out keyboard[4]
11. 100-sheet multipurpose tray 1
12. Lower-right door (access to print path)
13. Front door access to toner cartridges
14. Fax port[5]
15. Slot for cable-type security lock
16. Built-in Gigabit Ethernet
17. Hi-Speed USB 2.0 printing port
18. USB port for connecting external USB devices

Front view

Close-up of I/O ports

Series at a glance

Model	HP Color LaserJet Enterprise Flow MFP M682z
Product number	J8A17A
Print speeds (LTR/A4)[6]	Up to 60/56 ppm
Fax capabilities	√
100-sheet tray 1, 550-sheet tray 2	√
550-sheet paper feeder	Not available
550-sheet paper feeder with stand and cabinet	Not available
3x550-sheet paper feeder and stand	Not available
1x550-sheet/2,000-sheet HCI feeder and stand	√
3-bin stapler/stacker with offset job printing	√
Advanced workflow features including pull-out keyboard	√
Direct mobile printing	Embedded Wi-Fi Direct®[7]/ Bluetooth® Low Energy[10]
Wireless networking	Optional[10]

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.

Same Day Onsite – 4 hour 9x5:
Sends an HP technician to customers' site the same business day for repair, within 4 hours, if the issue cannot be resolved through remote support. Various support window times are available, for different requirements.

Next Business Day Onsite with Defective Media Retention:
Customers can retain their hard disk drive and keep control of sensitive data.

For carepack availability visit: hp.com/go/cpc

Top features

Only HP enterprise printers repair themselves from attacks in real time while offering outstanding manageability. Automatically monitor threats, detect intrusions, and validate operating software while centrally managing your fleet with ease.[1]

With speeds up to 60 pages per minute[4], fast first page out and a variety of paper-handling options, you get confidence that your employees can speed through their tasks without interruption.

Get more pages and help protect your MFP using Original HP Toner cartridges with JetIntelligence.[5]

Accelerate workflow, improve accuracy, and easily connect people throughout your organization. Complete high-volume scan jobs fast—up to 180 ipm[8]—and avoid extra steps with a Flow MFP designed for maximum productivity.

Accessories

P1B09A	HP Color LaserJet 550-sheet Paper Feeder
P1B10A	HP Color LaserJet 550-sheet Paper Feeder with Stand and Cabinet
P1B11A	HP Color LaserJet 3x550-sheet Paper Feeder with Stand
P1B12A	HP Color LaserJet 1x550/2000-sheet Feeder and Stand
J8031A	HP Jetdirect 2900nw Print Server
J8030A	HP Jetdirect 3000w NFC/Wireless Accessory
F5S62A	HP Trusted Platform Module Accessory
B5L28A	HP Internal USB Ports
B5L31A	HP Foreign Interface Harness
E5K48A	HP 1GB DDR3 x32 144-Pin 800MHz SODIMM
CC487A	HP LaserJet MFP Analog Fax Accessory 500

Supplies

CF450A	HP 655A Black Original LaserJet Toner Cartridge (~12,500 yield)
CF470X	HP 657X High Yield Black Original LaserJet Toner Cartridge (~28,000 yield)
CF451A	HP 655A Cyan Original LaserJet Toner Cartridge (~10,500 yield)
CF471X	HP 657X High Yield Cyan Original LaserJet Toner Cartridge (~23,000 yield)
CF452A	HP 655A Yellow Original LaserJet Toner Cartridge (~10,500 yield)
CF472X	HP 657X High Yield Yellow Original LaserJet Toner Cartridge (~23,000 yield)
CF453A	HP 655A Magenta Original LaserJet Toner Cartridge (~10,500 yield)
CF473X	HP 657X High Yield Magenta Original LaserJet Toner Cartridge (~23,000 yield)
P1B91A	HP LaserJet 110V Maintenance Kit (~150,000 pages)
P1B92A	HP LaserJet 220V Maintenance Kit (~150,000 pages)
P1B93A	HP LaserJet Image Transfer Belt Kit (~150,00 pages)
P1B94A	HP LaserJet Toner Collection Unit (~100,000 pages)
J8J95A	HP 300 ADF Roller Replacement Kit (~150,000 pages)
J8J96A	HP Staple Cartridge Refill (5,000 staples)

Services

U9NP3E	HP 3 year NBD Service w/Defective Media Retention
U9NP6E	HP 3 year 4 hour 9x5 Service w/Defective Media Retention
U9NX1PE	HP 1 year Post Wty NBD Service w/Defective Media Retention
U9NX3PE	HP 1 year Post Warranty 4 hour 9x5 Service w/DMR

[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] Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at hp.com/go/printsecurity. [3] HP Web Jetadmin is available for download at no additional charge at hp.com/go/webjetadmin. [4] 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. [5] More pages versus predecessor cartridges claim based on page-yield comparison of HP 653X High Yield Color Original LaserJet Toner Cartridges with HP 657X High Yield Color Original LaserJet Toner Cartridges. For more information, see hp.com/go/learnaboutsupplies [6] Energy claim based on TEC data reported on energystar.gov as of January 2017. Data normalized to determine energy efficiency of in-class laser printers with published speed of 50 to 60 ppm. Subject to device settings. Actual results may vary. [7] HP 657X High Yield Original LaserJet Toner Cartridges not included; please purchase separately. [8] Scan speed measured from ADF at default 300 dpi (black-and-white, grayscale, and color). Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. [9] Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep.

HP Color LaserJet Enterprise MFP M682 series

Technical Specifications	HP Color LaserJet Enterprise Flow MFP M682z(J8A17A)
MFP functions	Print, copy, scan, fax; **MFP multitasking supported:** Yes
Print speed	**Letter:** Up to 60 ppm black; Up to 60 ppm color[10]; **First Page Out Black:** As fast as 5.7 sec; **First Page Out Color:** As fast as 5.7 sec[12]
Print resolution	**Black (fine lines):** Up to 1200 x 1200 dpi; **Colour (fine lines):** Up to 1200 x 1200 dpi
Print Technology	Laser; **Print Resolution Technologies:** HP ImageRet 3600; 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); Pantone© Calibrated
Print Cartridges Number	4 (1 each black, cyan, magenta, yellow)
Standard Print Languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation, native PDF printing (v 1.7), URF (AirPrint)
Printer Smart Software Features	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB
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
Scan Type / Technology	**Type:** Flatbed, ADF; **Technology:** Charge Coupled Device (CCD)
Scan Resolution	**Hardware:** Up to 600 x 600 dpi; **Optical:** Up to 600 dpi
Scan File Format	Digital Send: PDF, Hi-Compression 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 (.prn, .pcl, .cht)
Scan Input Modes	Front panel applications: Copy; E-mail; Fax; Save to Network Folder; Save to USB; Save to Device Memory; Save to SharePoint; Open Extensibility Platform (OXP) applications; HP Scan or user application via TWAIN
Scan Size	**ADF:** 8.5 x 34.0 in Maximum; 2.7 x 5.8 in Minimum; **Flatbed:** 8.75 x 14.38 in
Scan Speed	Up to 90 ppm/180 ipm (b&w), up to 90 ppm/180 ipm (color)[18]; **Duplex:** Up to 180 ipm (b&w), up to 180 ipm (color)
Scanner Advanced Features	Optimize text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect color; 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 PDF, JPG, TIF, MTIF
Bit depth / Grayscale levels	24-bit / 256
Digital Sending Standard Features	Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to Sharepoint; Send to FTP; Send to LAN Fax; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Color Sense; Auto Crop To Content; Compact PDF; Auto Tonescale; Auto Orientation; Multi-Pick Detect; Auto Straighten; Auto Crop To Page; OCR
Copy Speed	**Black (letter):** Up to 60 cpm; **Color (letter):** Up to 60 cpm[14]
Copy Resolution	**Black (text and Graphics):** Up to 600 x 600 dpi; **Color (text and Graphics):** Up to 600 x 600 dpi
Maximum Number of Copies	Up to 9999
Copier Settings	Two-sided copying, scalability, image adjustments (darkness, contrast, background cleanup, sharpness), N-up, N or Z-ordering, content orientation, collation, booklet, job build, edge-to-edge, job storage, ID Copy, Book Copy, A-to-B Copy (different media sizes)
Fax Speed	**Up to:** 33.6 kbps; **Letter:** 3 sec per page[17]
Fax Resolution	**Black (fine lines):** Up to 300 x 300 dpi (400 x 400 dpi for received faxes only); **Black (standard):** 203 x 98 dpi
Fax Smart Software Features	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule
Fax Features	**Fax Memory:** Up to 500 pages; **Auto Fax Reduction Supported:** Yes; **Auto-Redialing:** Yes; **Fax Delayed Sending:** No; **Distinctive Ring Detection Supported:** No; **Fax Forwarding Supported:** Yes; **Fax Phone TAM Interface Supported:** No; **Fax Polling Supported:** Yes (poll to receive only); **Fax Telephone Mode Supported:** No; **Junk Barrier Supported:** Yes; **Maximum Speed Dialing Numbers:** Up to 1000 numbers (each with 210 destinations); **PC Interface Supported:** Yes; **Remote Retrieval Capability Supported:** No; **Telephone Handset Supported:** No
Standard Connectivity	1 Hi-Speed Device USB 2.0; 2 Host USB (1 walk-up and 1 external accessible); 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket; 1 Fax; 1 1 Wi-Fi direct 802.11b/g/n; 1 Bluetooth low energy
Network Capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (standard).
Network Ready	Standard (built-in Gigabit Ethernet); Included Wi-Fi Direct and Bluetooth low energy
Wireless Capability	Yes, Built-in Wi-Fi Direct, Bluetooth low energy (BLE); Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031A
Mobile Printing Capability	HP ePrint; Apple AirPrint™; Mopria™-certified; Wireless Direct Printing; Bluetooth Low Energy; Google Cloud Print 2.0
Memory	**Standard:** 1.5 GB (printer); 1 GB (scanner); **Maximum:** 3 GB
Processor Speed	1.2 GHz / **Hard disk:** Standard, minimum 320 GB HP High-Performance Secure Hard Disk (AES 256 hardware encryption or greater)
Duty Cycle	**Monthly, letter:** Up to 120,000 pages**Recommended Monthly Page Volume:** 2000 to 17,000
Paper Handling	**Input Capacities:** 100-sheet multi-purpose tray, 550-sheet input trays 2, 3, 2,000-sheet high capacity input tray 4, 150-sheet automatic document feeder; Up to 3200 sheets standard; MP Tray: Up to 10 envelopes (or 10mm stack height) labels capacity; **Output Capacities:** 500-sheet output tray, 500-sheet output stapler stacker, two-sided printing; Up to 1000 sheets standard labels legal; **Duplex Options:** Automatic (standard)**Auto Document Feeder Capacity:** Standard, 150 sheets; **Envelope Feeder:** No; **Standard Paper Trays:** 4; **Media Types Supported:** Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), color transparency, labels, letterhead, envelope, preprinted, prepunched, colored, rough, opaque film, user-defined; **Media Weight Supported:** Tray 1: 16 to 58 lb (plain) 32 to 58 lb (glossy); Trays 2, 3: 16 to 90 lb (plain) 32 to 58 lb (glossy); Tray 4: 16 to 58 lb (plain); **Media Sizes Supported:** Tray 1: letter, legal, executive, statement, Oficio, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, envelopes (No. 9, No. 10, Monarch); Trays 2, 3: letter, legal, executive, statement, Oficio, 4 x 6 in, 5 x 7 in, 5 x 8 in; Tray 4: letter, legal; **Media Sizes Custom:** Tray 1: 3 x 5 to 8.5 x 14 in; Trays 2, 3: 4 x 5.83 to 8.5 x 14 in; Optional 2000-sheet tray: custom sizes not supported in this tray
Product Dimensions	**W x D x H:** 25.87 x 25.87 x 50.00 in; **Maximum:** 39.06 x 38.07 x 60.20 in
Product Weight	168.1 lb[4]
What's in the box	HP Color LaserJet Multifunction Printer; HP Black Original LaserJet Toner Cartridge (~12,500 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (~10,500 yield each) (toner cartridges installed); CD with software drivers and documentation; Documentation (Hardware Install Guide); Power cord[2]
Warranty Features	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://hp.com/support to learn about HP award winning service and support options in your region.
Energy Efficiency Compliance	ENERGY STAR® qualified; Blue Angel; CECP; EPEAT® Silver
Control Panel	8.0-in (20.3 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; illuminated Home button (for quick return to the Home menu); Extended Keyboard
Display Description	8.0-in (20.3 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; illuminated Home button (for quick return to the Home menu)
Software Included	HP Connected, HP Device Experience (DXP), HP PCL 6 (XPS) 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
Fonts and Typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at http://www.hp.com/go/laserjetfonts
Compatible Operating Systems	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.)
Compatible Network Operating Systems	Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2, and 3), Citrix on Windows Server 2003/2003R2, Citrix on Windows Server 2008/2008R2/2008 R2 SP1, Citrix on Windows Server 2012/2012R2, Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3) for Windows Server 2008 Terminal Services 32- and 64-bit], Citrix XenApp 6.0/6.5/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit], Citrix XenApp 6.0/6.5 [for Windows Server 2008 R2 Terminal Services, 32- and 64-bit], Citrix XenApp 7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit], Citrix XenDesktop 5.6 [for Windows Server 2008 R2 Terminal Services, 32- and 64-bit], Citrix XenDesktop 5.6/7.0/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32- and 64-bit], Citrix XenDesktop 7.0/7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit], Novell NetWare 6.5/SP8 Novell Clients www.novell.com/iprint, Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, Novell Servers www.novell.com/iprint), Windows Server 2003/2003 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2), Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 32-/64-bit (SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services)
Minimum System Requirements	**PC:** 2 GB available hard disk space; OS hardware requirements see microsoft.com; **MAC:** 1.3 GB available hard drive space; Internet; OS hardware requirements see Apple.com for more info
Power	**Power Supply Type:** Built in 115V or 220 V Power Supply (not dual voltage, power supply varies by part number with option code identifier); **Power Requirements:** Input voltage: 100V to 127V nominal (+/-10%), 50 - 60Hz nominal (+/-3Hz), 12 A; Input voltage: 220 V to 240V nominal, (+/-10%) 50 -60Hz nominal (+/- 3Hz), 6 A; **Power Consumption:** 900 watts (printing/copying), 47 watts (ready), 0.9 watts (sleep), 0.9 watts (Auto Off/Manual On), 0.1 (Manual Off)[5]; Typical Electricity Consumption (TEC) number: ES: 2.72 kWh/Week; BA: 2.68 kWh/Week6; Blue Angel (Sleep mode): 0.73 Watts7
Acoustics	**Acoustic Power Emissions:** 6.8 B(A); **Acoustic Pressure Emissions:** 53 dB(A)
Operating Environment	**Operating Temperature Range:** 59 to 86ºF; **Recommended Operating Temperature:** 63.5 to 77ºF; **Storage Temperature Range:** -4 to 104ºF; **Non-Operating Humidity Range:** 10 to 90% RH; **Operating Humidity Range:** 10 to 80% RH; **Recommended Humidity Operating Range:** 30 to 70% RH
Security Management	Identity management: Kerberos authentication; LDAP authentication; 1000 user PIN codes; optional HP and 3rd party advanced authentication solutions (e.g.; badge readers); Network: IPsec/firewall with Certificate; Pre-Shared Key; and Kerberos authentication; Supports WJA-10 IPsec configuration Plug-in; 802.1X authentication (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS; Certificates; Access Control List; Data: Storage Encryption; Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft); Secure Erase; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock slot; USB port disablement; hardware integration pocket for security solutions; Intrusion Detection with Red Balloon Security Technology - Constant in-device monitoring for attacks; SureStart Secure Boot - BIOS Integrity Checking with self-healing capability; Whitelisting - loads only known good code (DLLs, EXEs, ...); Security management: Compatible with HP JetAdvantage Security Manager, Device Security Syslog Messages processed and accessable in Arcsight and Splunk SIEMs

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