Data sheet

HP LaserJet Enterprise M506 series

Get a faster startup[1] and help protect against threats with multi-level device security[7].

Finish tasks faster with a printer that starts right away and helps conserve energy.[1] Multi-level device security helps protect from threats[7]. Original HP Toner cartridges with JetIntelligence and this printer produce more high-quality pages.[2]

HP LaserJet Enterprise M506n

HP LaserJet Enterprise M506dn

HP LaserJet Enterprise M506x

Accelerate your work and use less energy

- Don't wait for documents. Print your first page in as few as 8.3 seconds from energy-efficient sleep mode.
- This printer leads its class in low energy use—thanks to its innovative design and toner technology.[5]
- Speed through jobs on a variety of media. Print two-sided documents almost as quickly as one.
- Now almost 27% smaller—this printer fits in tight places and delivers quiet operation.[3]

Unparalleled fleet security and management

- Embedded features detect security threats and heal your printer, protecting it from boot up to shutdown.[7]
- Protect sensitive data stored on the printer and in transit, using embedded and optional security features.[7]
- Protect sensitive business data with embedded and optional HP JetAdvantage Security Solutions.[9]
- Centralize control of your print environment with HP Web Jetadmin[8]—and help build business efficiency.

More. Pages, Performance, and Protection.

- Produce sharp text, bold blacks, and crisp graphics with precision black toner.
- Get more. Original HP Toner with JetIntelligence delivers more pages per cartridge than predecessors.[2]
- Help ensure the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
- Print right away with a preinstalled toner cartridge. Replace it with an optional high-yield cartridge.[6]

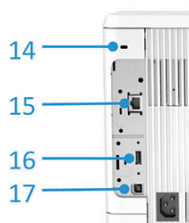### Stay connected with secure mobile printing options

- Enable 128-bit encrypted wireless direct printing from mobile devices—without accessing the network.[11]
- Print with just a touch of your NFC-enabled mobile device to this printer—no network needed.[12]
- Easily access, print, and share resources with Ethernet and optional wireless networking.[10]

HP LaserJet Enterprise M506x

Product walkaround

1. Intuitive 4.3-inch (10.9 cm) color VGA control panel tilts up for easier viewing
2. Home button (returns to home screen)
3. 250-sheet output bin
4. Easy-access USB port to print files directly[1]
5. Top cover access to Original HP Toner cartridge with JetIntelligence
6. 100-sheet multipurpose tray
7. Two 550-sheet input trays for a 1,200 sheet total input capacity
8. Hardware Integration Pocket (HIP) for solution integration[2]
9. Built-in wireless direct[3] /NFC touch-to-print[4]
10. Convenient front on/off switch
11. Built-in automatic two-sided printing
12. Rear door (access to the print path)
13. 512 MB standard memory (upgradeable to 1.5 GB) and a 1.2 GHz processor
14. Access port for optional Kensington-style lock
15. HP Jetdirect Gigabit/Fast Ethernet embedded print server
16. Hi-Speed USB 2.0 port (for connecting third-party devices)
17. Hi-Speed USB 2.0 printing port

Front view

Close-up of I/O ports

Series at a glance

Model	HP LaserJet Enterprise M506n	HP LaserJet Enterprise M506dn	HP LaserJet Enterprise M506x
Product number	F2A68A	F2A69A	F2A70A
100-sheet multipurpose tray, 550 sheet input tray 2	√	√	√
550-sheet input tray 3	Optional	Optional	√
2 550-sheet input trays 4 and 5[5]	Optional	Optional	Optional
Printer cabinet	Optional	Optional	Optional
Control panel	4-line display with keypad	4-line display with keypad	4.3-inch (10.9 cm) touchscreen
HP High Performance Secure Hard Disk	Optional	Optional	Optional
Hardware Integration Pocket (HIP)[2]	Not available	√	√
Automatic duplexing	Not available	√	√
Wireless direct[3] and NFC touch-to-print[4]	Optional	Optional	√
ENERGY STAR® and Blue Angel certified	Not available	√	√

[1]An administrator must enable the easy-access USB port before use. [2]The Hardware Integration Pocket is only available for the HP LaserJet Enterprise M506dn and M505x models. Enabling the HIP requires purchase of optional HP Internal USB Ports for M506/M527 accessory (F2A87A). Solutions deployed through the Hardware Integration Pocket may require additional purchase. [3]Wireless direct printing is standard on the HP LaserJet Enterprise M506x only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP LaserJet Enterprise M506n/dn. Mobile device needs to be connected directly to the Wi-Fi network of a wireless direct-capable MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see hp.com/go/businessmobileprinting. [4]Touch-to-print capability is standard on the HP LaserJet Enterprise M506x only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP LaserJet Enterprise M506n/dn. Mobile device must support Near Field Communication (NFC)-enabled printing. For more information, see hp.com/go/businessmobileprinting. [5]Based on ISO/IEC 19752 cartridge yields for HP 55X High Yield Black Original LaserJet Toner cartridges compared with HP 87X High Yield Black Original LaserJet Toner cartridges. Learn more at hp.com/go/learnaboutsupplies.

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.

Next Business Day with Defective Media Retention:

Customers can retain their hard disk drive and keep control of sensitive data.

Next Business Day Exchange:

Ships a permanent replacement unit overnight via premium airfreight, if hardware issue cannot be resolved remotely. Shipping charges are prepaid by HP.

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

Top features

Work quickly with the fastest first page out from sleep mode—on the most energy-efficient printer in its class.[15] Launch two-sided printing right from the touchscreen. Reload paper less often with a substantial 2,300-sheet maximum capacity.[4]

Trust your printer is secure from power-up to power-down. Get strong protection for devices, data, and documents with embedded and optional security features while centrally managing your entire printer fleet.

Bring out the best in your printer. Print more high-quality pages than ever before,[2] using specially designed Original HP Toner cartridges with JetIntelligence. Count on the authentic HP quality you paid for—something the competition can't match.

Enable secure wireless printing in the office—with or without network access[11]—and keep users connected with Ethernet and optional wireless networking. Print with just a touch from mobile devices.[12]

Accessories

F2A72A - HP LaserJet 550-sheet Paper Tray
F2A73A - HP LaserJet Printer Cabinet
G6W84A - 1GB DDR3 SlimDIMM
B5L29A - HP Secure High Performance Hard Disk Drive
F5S62A - HP Trusted Platform Module Accessory
F2A87A - HP Internal USB Ports for M506, M527
B5L28A - HP Internal USB Ports
J8031A - HP Jetdirect 2900nw Print Server (USB)
J8030A - HP Jetdirect 3000w NFC/Wireless Accessory

Supplies

CF287A - HP 872A Black Original LaserJet Toner Cartridge, 9K yield
CF287X - HP 872X Black Original LaserJet Toner Cartridge, 18K yield

Services

HP LaserJet Enterprise M506 Series

U8PK3E - HP 3 year Next Business Day + Defective Media Retention LaserJet M506 Hardware Support
U8PK4E - HP 4 year Next Business Day + Defective Media Retention LaserJet M506 Hardware Support
U8PK5E - HP 5 year Next Business Day + Defective Media Retention LaserJet M506 Hardware Support
U8PK7E - HP 3 year Next Business Day Exchange LaserJet M506 Service
UC742E - HP Network Install Mono Mid-range LaserJet Service

HP LaserJet Enterprise M506 series

Technical Specifications	HP LaserJet Enterprise M506n(F2A68A)	HP LaserJet Enterprise M506dn(F2A69A)	HP LaserJet Enterprise M506x(F2A70A)
Print speed	**Letter:** Up to 45 ppm black; [18]; **First Page Out Black:** As fast as 5.9 sec; As fast as 11.3 sec (100 V); [19]		
Print resolution	**Black (best):** Up to 1200 x 1200 dpi		
Print Technology	Laser; **Print Resolution Technologies:** 300 dpi, 600 dpi, HP FastRes 1200, HP ProRes 1200		
Print Cartridges Number	1 (black)		
Standard Print Languages	HP PCL 6, HP PCL 5 (HP PCL 5 driver available from the Web only), HP postscript level 3 emulation, native PDF printing (v 1.7)		
Printer Smart Software Features	FutureSmart Firmware, Open Extensibility Platform, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, JetIntelligence cartridges, Mopria-certified, Apple AirPrint™, HP ePrint, Online help	FutureSmart Firmware, Open Extensibility Platform, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, JetIntelligence cartridges, Mopria-certified, Apple AirPrint™, HP ePrint, Hardware Integration Pocket, Online help	FutureSmart Firmware, Open Extensibility Platform, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, JetIntelligence cartridges, Mopria-certified, wireless direct, NFC touch-to-print, Apple AirPrint™, HP ePrint, Hardware Integration Pocket, Online help
Printer Management	Printer Management; Printer Administrator Resource Kit (Driver Configuration Utility, Driver Deployment Utility, Managed Printing Administrator); HP Web JetAdmin Software; HP Proxy Agent Software; HP JetAdvantage Security Manager.		
Standard Connectivity	Hi-Speed USB 2.0 port; built-in Fast Ethernet 10Base-T/100Base-Tx, Gigabit Ethernet 1000Base-T		
Network Capabilities	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, XMPP, IPsec/Firewall; IPv6: DHCPv6, MLDv1, ICMPv6; IPv4: Auto-IP, SLP, Telnet, IGMPv2, BOOTP/DHCP, WINS, IP Direct Mode, WS Print		
Network Ready	Standard (built-in Gigabit Ethernet)		
Wireless Capability	Optional, enabled with purchase of HW accessories.		Yes, NFC/Wireless
Mobile Printing Capability	HP ePrint; Apple AirPrint™; Mopria-certified[16]		HP ePrint; Apple AirPrint™; Mopria-certified; Wireless direct printing; NFC touch-to-print[17]
Memory	**Standard:** 512 MB; **Maximum:** 1.5 GB		
Processor Speed	1.2 GHz / **Hard disk:** Optional, 500 GB minimum encrypted hard disk drive		
Duty Cycle	**Monthly, letter:** Up to 150,000 pages[7]; **Recommended Monthly Page Volume:** 2000 to 7500[8]		
Paper Handling	**Input Capacities:** 100-sheet multipurpose Tray 1, 550-sheet input Tray 2, and 3(M506x),automatic duplex printing (M506dn & M506x); Up to 650 sheets standard labels legal; Up to 1200 sheets standard labels legal (M506x); **Output Capacities:** 250-sheet output bin; Up to 250 sheets standard labels legal; **Duplex Options:** Manual (driver support provided) (M506n); Automatic (standard)(M506dn & M506x); **Envelope Feeder:** No; **Standard Paper Trays:** 2(M506n & M506dn) 3 (M506x); **Media Types Supported:** Paper (bond, color, letterhead, plain, preprinted, prepunched, recycled, rough); envelopes; labels; cardstock; transparencies; user-defined; **Media Weight Supported:** Tray 1: 16 to 53 lb; tray 2+: 16 to 32 lb; **Media Sizes Supported:** Tray 1: letter, legal, executive, 4 x 6, 5 x 8, 8.5 x 13, envelopes (No. 10, Monarch); Tray 2: letter, legal, executive, 8.5 x 13; Optional trays 3+: letter, legal, executive, 8.5 x 13 in; Optional Automatic Duplexer: letter; **Media Sizes Custom:** Tray 1: 3 x 5 to 8.5 x 14 in; 550-sheet input Tray 2: 4.1 x 5.8 to 8.5 x 14 in; optional 550-sheet input Tray 3+: 4.1 x 5.8 to 8.5 x 14 in		
Product Dimensions	**W x D x H:** 16.46 x 14.80 x 11.73 in[12]; **Maximum:** 16.46 x 25.16 x 11.73 in		**W x D x H:** 16.46 x 14.80 x 18.94 in[13]; **Maximum:** 16.46 x 25.16 x 18.94 in
Product Weight	25.5 lb[14]	25.9 lb[14]	34.9 lb[15]
What's in the box	HP LaserJet M506x Printer; Introductory HP Black LaserJet Toner Cartridge (~6000 pages); CDs containing software and electronic documentation; Warranty Guides; HIGS; Erratas; 550-sheet Paper Tray (M506x only)[20]		
Warranty Features	One-year, return to bench warranty		
Energy Efficiency Compliance	ENERGY STAR® certified; Blue Angel; CECP; EPEAT®		
Control Panel	4-line color LCD; 19 buttons (Cancel job, Up and Down arrow, Select, Back, Home, 12-key and Help); 3 LED indicator lights (Attention, Ready, Busy)		4.3-in touchscreen with color graphics
Display Description	4-line LCD (color graphics)		4.3-in color touchscreen
Software Included	For Windows OS: HP Software Installer/Uninstaller, HP PCL 6 Printer Driver, HP Device Experience (DXP), HP Update, Product Registration Assist, HP Web Services Assist (HP Connected), Online user manuals; For Mac OS: Welcome Screen (Directs users to http://www.HP.com or OS App Source for LaserJet Software)		
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 World Type);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	Windows OS compatible with In-Box Driver: Windows XP SP3 all 32-bit editions (XP Home, XP Pro, etc), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows OS compatible with Universal Print Driver (From HP.com): Windows XP SP3 32- & 64-bit editions (XP Home, XP Pro, etc), Windows Vista all 32- & 64-bit editions (Home Basic, Premium, Professional, etc), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets); Mac OS (HP Print Drivers available from http://www.hp.com and Apple Store): OS X 10.8 Mountain Lion, OS X 10.9 Mavericks, OS X 10.10 Yosemite; Mobile OS (In-OS drivers): iOS, Android, Windows 8/8.1/10 RT; Linux OS (In-OS HPLIP): SUSE Linux (12.2, 12.3, 13.1), Fedora (17, 18, 19, 20), Linux Mint (13, 14, 15, 16, 17), Boss (3.0, 5.0), Ubuntu (10.04, 11.10, 12.04, 12.10, 13.04, 13.10, 14.04, 14.10), Debian (6.0.x, 7.x); Other OS: UNIX[11]		
Compatible Network Operating Systems	Windows OS compatible with In-Box Driver: 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 OS compatible with Universal Print Driver (UPD) or Product-Specific drivers from HP.com: Windows Server 2003/2003 R2 32-/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ 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); Citrix (on Windows Server 2003/2003R2): Citrix MetaFrame Presentation Server, 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2, and 3), Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3); Citrix (on Windows Server 2008/2008 R2): Citrix XenApp 5.0 (Plus Feature Pack 2 & 3), Citrix XenApp 6.0/6.5/7.5, Citrix XenDesktop 5.6/7.0/7.5, Citrix (on Windows Server 2012/2012R2), Citrix XenApp 7.5, Citrix XenDesktop 7.0/7.5; Novell Servers (http://www.novell.com/iprint): Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, NetWare 6.5/SP8; Novell Clients (http://www.novell.com/iprint): Windows 8 (32-bit / 64-bit) recommend v5.86+, 8.1 recommend v5.94+, Windows 7 (32-bit / 64-bit) recommend v5.82+, Windows Vista (32-bit / 64-bit) recommend v5.82+, Windows XP / SP3 (32-bit only) recommend v5.82+		
Minimum System Requirements	**PC:** Windows XP SP3 all 32-bit editions (XP Home, XP Pro, etc), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets); CD-ROM or DVD drive, or Internet connection; Dedicated USB or network connection or Wireless connection; 200 MB available hard disk space; OS compatible hardware (For OS hardware requirements see http://www.microsoft.com); **MAC:** Mac OS X 10.8 Mountain Lion, OS X 10.9 Mavericks, OS X 10.10 Yosemite; Internet; USB; 1 GB available hard disk; OS compatible hardware (For OS hardware requirements see http://www.apple.com)		
Power	**Power Supply Type:** Internal (Built-in) power supply; **Power Requirements:** Input voltage: 100 to 127 VAC, 60 Hz; Input voltage: 200 to 240 VAC, 50 Hz (Not dual voltage, power supply varies by part number with #option code identifier); **Power Consumption:** 741.98 watts (Active Printing), 13.72 watts (Ready), 2.51 watts (Sleep), 0.08 watts (Auto-Off), 0.08 watts (Off); **Typical Electricity Consumption:** 1.886 kWHrs/Week @ 115V[2]		
Acoustics	**Acoustic Power Emissions:** 6.8 B(A); **Acoustic Pressure Emissions:** 54 dB(A)[6]		
Operating Environment	**Operating Temperature Range:** 59 to 90.5°F; **Recommended Operating Temperature:** 63.5 to 77°F; **Storage Temperature Range:** -4 to 140°F; **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	Management security: SNMPv3, SSL/TLS, WPA2-Enterprise, 802.1X authentication (EAP- PEAP, EAP-TLS), IPP over TLS, IPsec/Firewall with Certificate, Pre-Shared Key Authentication, and Kerberos Authentication; Support for WJA-10 IPsec Configuration using IPsec Plug-in		

[1] AirPrint™ and iOS 4.2 or later devices require an 802.11 wireless network connection to the printer. Wireless performance is dependent upon physical environment and distance from the access point. AirPrint and the AirPrint Logo are trademarks of Apple® Inc. Wireless operations are compatible with 2.4 GHz operations only. App or software and HP ePrint account registration may also be required. Some features require purchase of an optional accessory. Learn more at hp.com/go/mobileprinting. [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. [3] Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh). [4] Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled. [5] Declared yield value in accordance with ISO/IEC 19752 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see hp.com/go/learnaboutsupplies. [6] Acoustic values are subject to change. For current information see hp.com/support. Configuration tested: dn model, simplex printing, A4 paper at 43 ppm [7] 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. [8] 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. [9] HP SureSupply alerts you when your print cartridge is running low and helps you purchase online locally through HP or a participating retailer. Only available with Original HP supplies; Internet access required. To learn more, visit hp.com/go/SureSupply. [10] Paper handling accessories are offered separately and with an additional cost. [11] Not all "Compatible Operating Systems" are supported with inbox software; Full solution software available only for Windows 7 and newer; Legacy Windows Operation Systems (XP, Vista, and equivalent servers) get print and Scan drivers only; Windows RT OS for Tablets (32- & 64-bit) uses a simplified HP print driver built into the RT OS; UNIX modelscripts are available on HP.com (Modelscripts are printer drivers for UNIX operating systems); Linux systems use in-OS HPLIP software. [18] Measured using ISO/IEC 24734, 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. [19] Measured using ISO/IEC 17629. For more information see hp.com/go/printerclaims. Exact speed varies depending on the input voltage, system configuration, software application, driver, and document complexity. [20] Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit hp.com/go/learnaboutsupplies The HP LaserJet Enterprise M506 series in-box cartridge may have a higher yield than stated for printer units manufactured before 2017.

Learn more at hp.com