

HP LaserJet Enterprise M506 series



Unmatched performance. Deepest security.

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



Print first page out



Less energy



Color touchscreen



Wireless direct



NFC



HP JetAdvantage compatible

Accelerate your work and use less energy

- Don't wait for documents. Print your first page in as few as 8.5 seconds from energy-efficient sleep mode.
- This printer leads its class in low energy use – thanks to its innovative design and toner technology.³
- Speed through jobs on a variety of media. Print two-sided documents without sacrificing performance slowdowns for duplexing.
- Now almost 30% smaller – this printer fits in tight places and delivers quiet operation.⁴

Unparalleled fleet security and management

- Embedded features detect security threats and heal your printer, protecting it from boot up to shutdown.
- Protect sensitive data stored on the printer and in transit, using embedded and optional security features.⁵
- Protect sensitive business data with embedded and optional HP JetAdvantage Security Solutions.⁶
- Centralise control of your print environment with HP Web Jetadmin⁷ – 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.⁸

Stay connected with secure mobile printing options

- Enable 128-bit encrypted wireless direct printing from mobile devices – without accessing the network.⁹
- Print with just a touch of your NFC-enabled mobile device to this printer – no network needed.¹⁰
- Easily access, print, and share resources with Ethernet and optional wireless networking.¹¹

Product walkaround

HP LaserJet Enterprise M506x shown

1. Intuitive 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
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 integration¹ (requires purchase of HP Internal USB Ports accessory)
9. Built-in wireless direct²/NFC touch-to-print
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



Series at a glance



Model	HP LaserJet Enterprise M506dn	HP LaserJet Enterprise M506x
Product number	F2A69A	F2A70A
Print speed, A4	Up to 43 ppm	Up to 43 ppm
Duplex print speed, A4	34 ipm	34 ipm
Control panel	4-line display with keypad	10.9 cm colour touchscreen
HP High Performance Secure Hard Drive	Optional	Optional
Standard/maximum input	650/2,300 sheets	1,200/2,300 sheets
Hardware Integration Pocket (HIP) ¹ (requires purchase of HP Internal USB Ports accessory)	Yes	Yes
Two-sided printing	Automatic	Automatic
Wireless direct ² /NFC	Optional	Yes
Blue Angel and ENERGY STAR [®] certified	Yes	Yes

Accessories, Supplies and Support

Supplies	CF287A HP 87A Black Original LaserJet Toner Cartridge 9,000 pages
	CF287X HP 87X High Yield Black Original LaserJet Toner Cartridge 18,000 pages
Accessories	B5L29A HP High-Performance Secure Hard Disk
	F2A73A HP LaserJet Printer Cabinet
	F2A72A HP LaserJet 550-sheet Paper Tray
	F2A87A HP Internal USB Ports
	F5562A HP Trusted Platform Module Accessory
	G6W84A P 1 GB 90-pin DDR3 DIMM
Connectivity	E5K46A HP 1200w NFC/Wireless Mobile Print Accessory
	J8030A HP Jetdirect 3000w NFC/Wireless Accessory
	J8031A HP Jetdirect 2900nw Print Server
Service and support	U8PK3E HP 3 year Next business day with Defective Media Retention LaserJet M506 Hardware Support
	U8PK4E HP 4 year Next business day with Defective Media Retention LaserJet M506 Hardware Support
	U8PK5E HP 5 year Next business day with Defective Media Retention LaserJet M506 Hardware Support
	U8PL9PE HP 1 year Post Warranty Next business day with Defective Media Retention LaserJet M506 Hardware Support
	U8PMOPE HP 2 year Post Warranty Next business day with Defective Media Retention LaserJet M506 Hardware Support

Technical specifications

Model	HP LaserJet Enterprise M506dn	HP LaserJet Enterprise M506x
Product number	F2A69A	F2A70A
Print		
Print speed	Up to 43 ppm black (A4); Up to 34 ipm black duplex (A4)	
First page out time ³	As fast as 5.9 sec black (A4, ready)	
Print resolution	Up to 1200 x 1200 dpi black; 300 dpi, 600 dpi, HP FastRes 1200, HP ProRes 1200	
Print technology	Laser	
Print Area	Print margins: Top: 5 mm; Bottom: 5 mm; Left: 5 mm; Right: 5 mm	
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 (v1.7)	
Printer Smart Software Features	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
Monthly duty cycle	Up to 150,000 pages (A4); Recommended monthly page volume: 2,000 to 7,500 (print);	
Duplex printing	Automatic (standard)	
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 font (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	
SureSupply supported	Yes	
Processor speed	1.2 GHz	
Connectivity		
Standard	Hi-Speed USB 2.0 port; Built-in Fast Ethernet 10Base-T/100Base-Tx, Gigabit Ethernet 1000Base-T	
Optional	HP Jetdirect 2900nw Print Server J8031A; HP Jetdirect 3000w NFC/Wireless Accessory J8030A	HP Jetdirect 2900nw Print Server J8031A
Supported network protocols	IPv4/IPv6: Apple Bonjour Compatible (Mac OS 10.2.4 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; Other: NetWare NDS, Bindery, NDPS, ePrint; Google Cloud Print 2.0	
Network ready	Standard (built-in Gigabit Ethernet)	
Memory	Standard: 512 MB; Maximum: 1.5 GB	

Model	HP LaserJet Enterprise M506dn	HP LaserJet Enterprise M506x
Product number	F2A69A	F2A70A
Copy		
Media types	Paper (bond, colour, letterhead, plain, preprinted, prepunched, recycled, rough), envelopes, labels, cardstock, transparencies, user-defined	
Paper size	Custom metric: Tray 1: 76 x 127 to 216 x 356 mm; 550-sheet input Tray 2: 105 x 148 to 216 x 356 mm; Optional 550-sheet input Tray 3+: 105 x 148 to 216 x 356 mm Supported metric: Tray 1: A4, A5, A6, B5, 10 x 15 cm, post cards (JIS single and double), envelopes (DL, C5, C6, B5); Tray 2: A4, A5, B5, double postcard; Optional trays 3+: A4, B5, double postcard; Optional Automatic Duplexer: A4	
Paper handling	Standard input: 100-sheet multipurpose Tray 1, 550-sheet input Tray 2, automatic duplex printing Standard output: 250-sheet output bin Optional/Input: Up to 3 optional 550-sheet paper feeders	
Input capacity	Tray 1: Sheets: 100; Envelopes: 10 Tray 2: Sheets: 550 Maximum: Up to 2,300 sheets	Tray 1: Sheets: 100; Envelopes: 10 Tray 2: Sheets: 550 Tray 3: Sheets: 550 Maximum: Up to 2,300 sheets
Output capacity	Standard: Up to 250 sheets, Up to 10 envelopes, Up to 75 sheets Transparencies Maximum: Up to 250 sheets Envelopes: Up to 10 envelopes Transparencies : Up to 75 sheets	
Paper weight	Tray 1: 60 to 199 g/m ² ; Tray 2+: 60 to 120 g/m ²	
Compatible operating systems	Windows OS compatible with In-Box Driver: Windows 10 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 8/8.1 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 7 all 32 & 64-bit editions, Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc); Windows OS compatible with Universal Print Driver (from HP.com): Windows 10 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 8/8.1 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 7 all 32 & 64-bit editions, Windows Vista all 32 & 64-bit editions (Home Basic, Premium, Professional, etc); 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	
Compatible network operating systems	Windows OS compatible with In-Box Driver: Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 32/64-bit (SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2) Standard/Enterprise (+ Cluster & Terminal Services); Windows OS compatible with Universal Print Driver (UPD) or product-specific drivers from HP.com: Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32/64-bit (SP1/SP2) Standard/Enterprise/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 2012/2012 R2), 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 (32/64-bit) recommend v5.86+, 8.1 recommend v5.94+, Windows 7 (32/64-bit) recommend v5.82+, Windows Vista (32/64-bit) recommend v5.82+, Windows XP / SP3 (32-bit only) recommend v5.82+	
Mobile printing capability⁴	HP ePrint; Apple AirPrint™; Mopria-certified	HP ePrint; Apple AirPrint™; Mopria-certified; Wireless direct printing; NFC touch-to-print
Minimum system requirements	Windows: Windows 10 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 8/8.1 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 7 all 32 & 64-bit editions, Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc); CD-ROM, DVD drive or Internet connection; Dedicated USB, network 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 space; OS compatible hardware (for OS hardware requirements, see http://www.apple.com)	
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 Store for LaserJet Software)	
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	
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.	
Dimensions / Weights		
Printer dimensions	Minimum: 418 x 376 x 298 mm Maximum: 418 x 639 x 298 mm	Minimum: 418 x 376 x 481 mm Maximum: 418 x 639 x 481 mm
Package dimensions (W x D x H)	497 x 398 x 466 mm	564 x 498 x 713 mm
Printer Weight	11.8 kg	15.8 kg
Package weight	14.6 kg	22.1 kg
Operating environment	Temperature: 15 to 32.5°C, Humidity: 30 to 70% RH	
Storage	Temperature: -20 to 60°C, Humidity: 10 to 90% RH	
Acoustics⁵	Acoustic power emissions: 6.8 B(A); Acoustic pressure emissions: 54 dB(A)	
Power⁶	Requirements: Input voltage: 200 to 240 VAC, 50 Hz Consumption: 741.98 watts (printing), 13.72 watts (ready), 2.51 watts (sleep), 0.08 watts (auto-off), 0.08 watts (off) Typical Electricity Consumption (TEC): 1.824 kWh/Week (Blue Angel); 1.886 kWh/Week (Energy Star)	
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology	
Certifications	CISPR 22:2008 (International) - Class A; EN 55022:2010 (EU) - Class A; EN 61000-3-2:2006 +A1:2009 +A2:2009; EN 61000-3-3:2008; EN 55024:2010; EMC Directive 2004/108/EC; Other EMC approvals as required by individual countries ENERGY STAR® certified; Blue Angel; CECP; EPEAT®	
Warranty	One-year, on-site warranty	
What's in the box	HP LaserJet Enterprise M506dn Printer; Introductory HP Black LaserJet Toner Cartridge (6000 pages); CDs containing software and electronic documentation; Warranty guides; HIGS; Erratas	HP LaserJet Enterprise M506x Printer; Introductory HP Black LaserJet Toner Cartridge (6000 pages); CDs containing software and electronic documentation; Warranty guides; HIGS; Erratas; 550-sheet Paper Tray
Replacement cartridges⁷	HP 87A Black Original LaserJet Toner Cartridge (9,000 pages) CF287A; HP 87X Black Original LaserJet Toner Cartridge (18,000 pages) CF287X	

Footnotes

¹ Based on HP internal testing of top three leading competitors' first page out from sleep mode and duplex print speed completed 8/2015. Subject to device settings. Actual results may vary. For details, see <http://www.hp.com/go/ljclaims>.; ² More pages versus predecessor cartridges claim based on page-yield comparison of HP 55X High Yield Black Original LaserJet Toner Cartridges with HP 87X High Yield Black Original LaserJet Toner Cartridges. For more information, see <http://www.hp.com/go/learnaboutsupplies>.; ³ Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in energystar.gov versus the top three leading competitors as of 8/2015. Actual results may vary. For details see [hp.com/go/ljclaims](http://www.hp.com/go/ljclaims).; ⁴ Compared with the HP LaserJet Enterprise P3015. ; ⁵ Some features require additional purchase. Learn more at <http://www.hp.com/go/printsecurity>.; ⁶ Some solutions require download or additional purchase. Learn more at [hp.com/go/printingsolutions](http://www.hp.com/go/printingsolutions).; ⁷ HP Web Jetadmin is free and available for download at [hp.com/go/webjetadmin](http://www.hp.com/go/webjetadmin).; ⁸ HP 87X High Yield Black Original LaserJet Toner Cartridges not included; please purchase separately.; ⁹ 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 M506dn. Mobile device needs to be connected directly to the WiFi 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 <http://www.hp.com/go/businessmobileprinting>.; ¹⁰ 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 M506dn. Mobile device must support Near Field Communication (NFC)-enabled printing. For more information, see <http://www.hp.com/go/businessmobileprinting>.; ¹¹ Wireless networking requires purchase of the 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.

Technical specifications disclaimers

¹ The Hardware Integration Pocket is only available for HP LaserJet Enterprise M506dn and M506x models. Enabling the Hardware Integration Pocket (HIP) requires purchase of optional HP Internal USB Ports (F2A87A). Solutions deployed through the Hardware Integration Pocket may require additional purchase.; ² 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](http://www.hp.com/go/businessmobileprinting).; ³ Measured using ISO/IEC 17629. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the input voltage, system configuration, software application, driver, and document complexity.; ⁴ 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 <http://www.hp.com/go/mobileprinting>.; ⁵ Acoustic values are subject to change. For current information, see <http://www.hp.com/support>. Configuration tested: dn model, simplex printing, A4 paper at 43 ppm.; ⁶ 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. ; ⁷ 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 <http://www.hp.com/go/learnaboutsupplies>.



<http://www.hp.com/uk>

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