Data sheet

HP LaserJet Enterprise M506 series

Unmatched performance. Deepest security.

Finish tasks faster with a printer that starts right away and helps conserve energy.[1] Multi-level device security helps protect from threats.[2] Original HP Toner cartridges with JetIntelligence and this printer produce more high-quality pages.[3]

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.
- Speed through jobs on a variety of media. Print two-sided documents without sacrificing performance slowdowns for duplexing.
- Now over 20% 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.[2]
- Protect sensitive data stored on the printer and in transit, using embedded and optional security features.[2]
- Protect sensitive business data with embedded and optional HP JetAdvantage Security Solutions.[5]
- Centralise control of your print environment with HP Web Jetadmin[6] – 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.[3]
- Get the professional results you expect from HP with a choice of JetIntelligence cartridges to fit your budget.[7]
- Help ensure the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
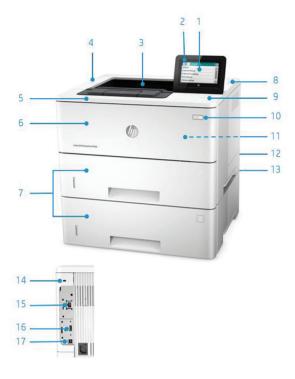
Stay connected with secure mobile printing options

- Enable 128-bit encrypted wireless direct printing from mobile devices – without accessing the network.[8]
- Print with just a touch of your NFC-enabled mobile device to this printer – no network needed.[9]
- Easily access, print, and share resources with Ethernet and optional wireless networking.[10]

Low energy

Color touchscreen

Wireless direct

NFC

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 integration[1] (requires purchase of HP Internal USB Ports accessory)
9. Built-in wireless direct[2]/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)(requires purchase of HP Internal USB Ports accessory)	Yes	Yes
Two-sided printing	Automatic	Automatic
Wireless direct/NFC	Optional	Yes
Blue Angel and ENERGY STAR® certified	Yes	Yes

Accessories, Supplies and Support

Supplies	**CF287X** HP 87X High Yield Black Original LaserJet Toner Cartridge 18,000 pages
	CF287A HP 87A Black Original LaserJet Toner Cartridge 9,000 pages
Accessories	**B5L28A** HP Internal USB Ports
	B5L29A HP High-Performance Secure Hard Disk
	F2A72A HP LaserJet 550-sheet Paper Tray
	F2A73A HP LaserJet Printer Cabinet
	F2A87A HP Internal USB Ports
	F5S62A HP Trusted Platform Module Accessory
	G6W84A HP 1 GB 90-pin DDR3 DIMM
Connectivity	**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 **U8PM0PE** 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
Functions	Print	
Control panel	4-line colour LCD; 19 buttons (Cancel job, Up and Down arrow, Select, Back, Home, 12-key and Help); 3 LED indicator lights (Attention, Ready, Busy)	10.9 cm (4.3") touchscreen with colour graphics
Print		
Print technology	Laser	
Print speed[1]	**Black (A4, normal)**: Up to 43 ppm; **Black (A4, duplex)**: Up to 34 ipm	
First page out[2]	**Black (A4, ready)**: As fast as 5.9 sec; **Black (A4, sleep)**: As fast as 8.1 sec	
Print resolution	**Black (best)**: Up to 1200 x 1200 dpi; **Technology**: 300 dpi, 600 dpi, HP FastRes 1200, HP ProRes 1200	
Monthly duty cycle[3]	Up to 150,000 pages (A4); **Recommended monthly page volume[4]:** 2,000 to 7,500	
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
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 (v1.7)	
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	
Print area	**Print margins**: Top: 5 mm, Bottom: 5 mm, Left: 5 mm, Right: 5 mm	
Duplex printing	Automatic (standard)	
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
Wireless	Optional, enabled with purchase of a hardware accessories	Yes, built-in NFC Touch-to-Print; Wireless direct printing
Mobile printing capability [5]	HP ePrint; Apple AirPrint™; Mopria™-certified	HP ePrint; Apple AirPrint™; Mopria™-certified; NFC Touch-to-print; Wireless Direct Printing
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 capabilities	Standard (built-in Gigabit Ethernet)	
Memory	**Standard**: 512 MB; **Maximum** : 1.5 GB	
Media handling		
Number of paper trays	**Standard**: 2; **Maximum**: 5	**Standard**: 3; **Maximum**: 5
Media types	Paper (bond, colour, letterhead, plain, preprinted, prepunched, recycled, rough), envelopes, labels, cardstock, transparencies, user-defined	
Media 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	
Media 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	

Model	HP LaserJet Enterprise M506dn	HP LaserJet Enterprise M506x
Product number	F2A69A	F2A70A
Media weight	Tray 1: 60 to 200 g/m²; Tray 2+: 60 to 120 g/m²	
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 Envelopes: Up to 10 envelopes Transparencies: Up to 75 sheets **Maximum**: Up to 250 sheets	
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+	
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 Soure 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 and Weight		
Printer dimensions (W x D x H)	**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	
Acoustics[6]	**Acoustic power emissions**: 6.8 B(A); **Acoustic pressure emissions**: 54 dB(A)	
Power[7]	**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); **Power supply type**: Built-in power supply	
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® qualified; EPEAT® Silver; CECP	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® qualified; EPEAT® Silver; CECP; Blue Angel RAL-UZ 205
What's in the box[8]	HP LaserJet Enterprise M506dn Printer; Introductory HP Black LaserJet Toner Cartridge (6,000 pages); CDs containing software and electronic documentation; Warranty guides; HIGS; Erratas	HP LaserJet Enterprise M506x Printer; Introductory HP Black LaserJet Toner Cartridge (6,000 pages); CDs containing software and electronic documentation; Warranty guides; HIGS; Erratas; 550-sheet Paper Tray
Warranty	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://www.hp.com/support to learn about HP award winning service and support options in your region.	

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] 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.

[4] Compared with the HP LaserJet Enterprise P3015.

[5] Some solutions require download or additional purchase. Learn more at http://www.hp.com/go/printingsolutions.

[6] HP Web Jetadmin is free and available for download at http://www.hp.com/go/webjetadmin.

[7] HP 87X High Yield Black Original LaserJet Toner Cartridges not included; please purchase separately.

[8] 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.

[9] 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.

[10] 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] 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.

[2] 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.

[3] 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.

[4] 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.

[5] 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.

[6] 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.

[7] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty.

[8] Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit http://www.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.

http://www.hp.com/uk