Data sheet

HP LaserJet Enterprise M506 series

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

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 8.5 seconds from energy-efficient sleep mode.
- This printer leads its class in low energy use—thanks to its innovative design and toner technology.[4]
- Speed through jobs on a variety of media. Print two-sided documents almost as quickly as one.
- Now almost 30% 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.
- Protect sensitive data stored on the printer and in transit, using embedded and optional security features.[6]
- Protect sensitive business data with embedded and optional HP JetAdvantage Security Solutions.[8]
- Centralize control of your print environment with HP Web Jetadmin[7]—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.[5]
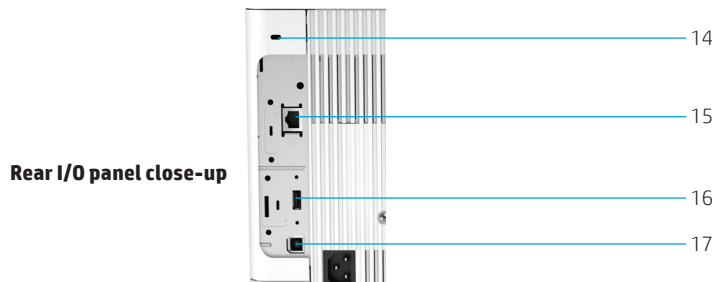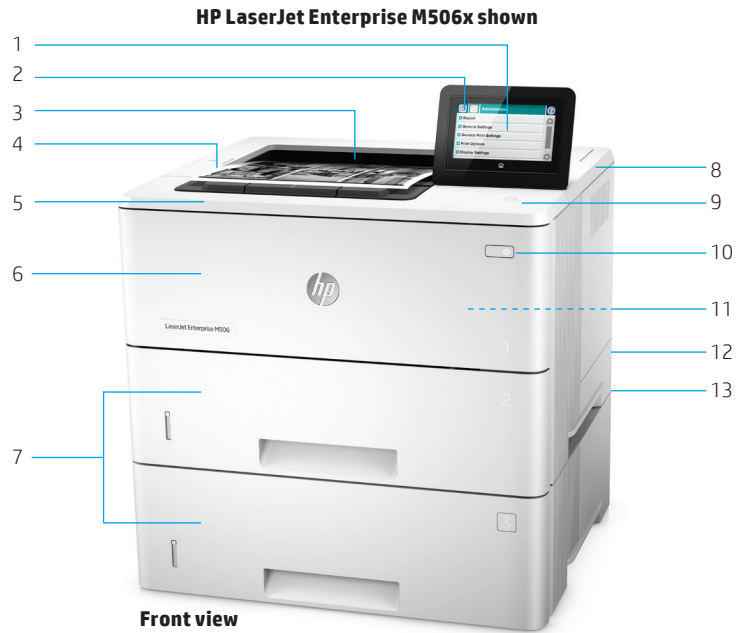
Stay connected with secure mobile printing options
- Enable 128-bit encrypted wireless direct printing from mobile devices—without accessing the network.[10]
- Print with just a touch of your NFC-enabled mobile device to this printer—no network needed.[11]
- Easily access, print, and share resources with Ethernet and optional wireless networking.[9]
- Protect your investment with HP Care Pack. Let our HP certified engineers resolve all your technical issues.[12]

Product walkaround

1 Intuitive 4.3-inch (10.9 cm) colour 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

HP LaserJet Enterprise M506x shown

Front view

Rear I/O panel close-up

Series at a glance

Model	M506n	M506dn	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. 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

Top Features

Work quickly with the fastest first page out from sleep mode—on the most energy-efficient printer in its class.[1, 4] Launch two-sided printing right from the touchscreen. Reload paper less often with a substantial 2,300-sheet maximum capacity.[3]

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[5]—and keep users connected with Ethernet and optional wireless networking. Print with just a touch from mobile devices.[6]

Product

F2A68A	HP LaserJet Enterprise M506n
F2A69A	HP LaserJet Enterprise M506dn
F2A70A	HP LaserJet Enterprise M506x

Accessories

F2A72A	HP LaserJet 550-sheet Paper Tray
F2A73A	HP LaserJet Printer Cabinet
G6W84A	1 GB DDR3 SlimDIMM
B5L29A	HP Secure High Performance Hard Disk Drive
F5S62A	HP Trusted Platform Module Accessory
B5L28A	HP Internal USB Ports
F2A87A	HP Internal USB Ports for M506 and M527
F2A88A	HP Internal USB Ports Qty 100 for M506 and M527
J8031A	HP Jetdirect 2900nw Print Server
J8030A	HP Jetdirect 3000w NFC/Wireless Accessory

Supplies & Maintenance Kits[7]

CF287A	HP 87A Black Original LaserJet Toner Cartridge (~9,000 pages)
CF287X	HP 87X Black Original LaserJet Toner Cartridge (~18,000 pages)

HP Care Packs

U8PK3E	HP 3-year Next Business Day + DMR LaserJet M506 Hardware Support
U8PK4E	HP 4-year Next Business Day + DMR LaserJet M506 Hardware Support
U8PK5E	HP 5-year Next Business Day + DMR LaserJet M506 Hardware Support
U8PL9PE	HP 1-year Post Warranty Next Business Day + DMR LaserJet M506 Hardware Support
U8PM0PE	HP 2-year Post Warranty Next Business Day + DMR LaserJet M506 Hardware Support

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/cpc

Paper

Contact HP via phone: Asia: 65 6253 8500

Solutions

HP Web Jetadmin: hp.com/go/wja
HP Universal Print Driver: hp.com/go/upd
HP Imaging and Printing Security Center: hp.com/go/ipsc
HP LaserJet Fonts, Barcodes, and IPDS Emulation available at hp.com/go/laserjetfonts
To learn more about available infrastructure, management, and workflow solutions, visit hp.com/go/gsc

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HP LaserJet Enterprise M506 series

Technical specifications	HP LaserJet Enterprise M506n (F2A68A)	HP LaserJet Enterprise M506dn (F2A69A)	HP LaserJet Enterprise M506x (F2A70A)
Functions	Print only		
Print			
Duplex print options	Manual (driver support provided)	Automatic (standard)	
Print speed[1]	**Black (normal, A4):** Up to 43 ppm; **Black (normal, letter):** Up to 45 ppm; **Black (Landscape, A5):** Up to 65 ppm; **Black (Duplex, A4):** Up to 34 ipm; **Black (Duplex, letter):** Up to 36 ipm		
First page out[2]	**Black (A4, ready):** As fast as 6.0 sec; As fast as 11.5 sec (100 V); **Black (A4, sleep):** As fast as 8.1 sec ; As fast as 13.7 sec (100 V)		
Print technology	Laser		
Print resolution	**Black (best):** Up to 1200 x 1200 dpi; **Black (normal):** Up to 600 x 600 dpi; **Black (fine lines):** Up to 1200 x 1200 dpi		
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 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		
Connectivity			
Standard connectivity	Hi-Speed USB 2.0 port; built-in Fast Ethernet 10Base-T/100Base-Tx, Gigabit Ethernet 1000Base-T		
Mobile printing capability[3]	HP ePrint; Apple AirPrint™; Mopria-certified		HP ePrint; Apple AirPrint™; Mopria-certified; Wireless direct printing; NFC touch-to-print
Network ready	Standard (built-in Gigabit Ethernet)		
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		
Wireless capability	Optional, enabled with purchase of HW accessories		Yes, NFC/Wireless
Memory	**Standard:** 512 MB; **Maximum:** 1.5 GB		
Duty cycle[4]	Up to 150,000 pages; **Recommended monthly page volume:[5]** 2,000 to 7,500 pages		
Processor speed	1.2 GHz		
Paper handling			
Input[6]	100-sheet multipurpose Tray 1, 550-sheet input tray 2; **Optional:** Up to 3 550-sheet paper feeders	100-sheet multipurpose Tray 1, 550-sheet input Tray 2, automatic duplex printing; **Optional:** Up to 3 550-sheet paper feeders	100-sheet multipurpose Tray 1, 550-sheet input Trays 2 and 3, automatic duplex printing; **Optional:** Up to 2 550-sheet paper feeders
Output	250-sheet output bin		
Media type	Paper (bond, colour, letterhead, plain, preprinted, prepunched, recycled, rough); envelopes; labels; cardstock; transparencies; user-defined		
Media weight	**Tray 1:** 60 to 199 g/m²; **Tray 2+:** 60 to 120 g/m²		
Media sizes custom	**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		
Dimensions (W x D x H)	418 x 376 x 298 mm (16.46 x 14.80 x 11.73 in)	418 x 376 x 298 mm (16.46 x 14.80 x 11.73 in)	418 x 376 x 481 mm (16.46 x 14.80 x 18.94 in)
Weight	11.6 kg (25.5 lb)	11.8 kg (25.9 lb)	15.8 kg (34.9 lb)
What's in the box[7]	HP LaserJet M506n Printer; Introductory HP Black LaserJet Toner Cartridge (~6,000 pages); CDs containing software and electronic documentation; Warranty Guides; HIGS; Erratas	HP LaserJet M506dn Printer; Introductory HP Black LaserJet Toner Cartridge (~6,000 pages); CDs containing software and electronic documentation; Warranty Guides; HIGS; Erratas	HP LaserJet 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 features	One-year, return to bench warranty		
Systems			
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 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		
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 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 apple.com)		
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 hp.com/go/laserjetfonts		
Power	**Power supply type:** Internal (Built-in) power supply; **Power supply required: 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:[8]** 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 number:** 1.824 kWh/Week (Blue Angel); 1.886 kWh/Week (Energy Star)		
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 HP.com or OS App Source for LaserJet Software)		
Acoustic	**Acoustic power emissions:[9]** 6.8 B(A); **Acoustic power emissions (ready):** 4.0 B(A); **Acoustic pressure emissions bystander (active, printing):** 54 dB(A); **Acoustic pressure emissions bystander (ready):** 24 dB(A)		
Environmental ranges	**Operating temperature range:** 15 to 32.5° C (59 to 90.5° F); **Recommended operating temperature:** 17.5 to 25° C (63.5 to 77° F); **Non-operating humidity range:** 10 to 90% RH; **Operating humidity range:** 10 to 80% RH; **Recommended operating humidity 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		
Safety approvals and requirements	IEC 60950-1:2005 +A1:2009 +A2:2013 (International); EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013 (EU); EN 60825-1:2007/IEC 60825-1:2007 (Class 1 Laser Product); EN 62479:2010/IEC 62479:2010; Low Voltage Directive 2006/95/EC with CE Mark (Europe); GS Certificate (Germany, Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2011-12; Compliance with Laser safety standards 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser notice No. 50, Dated June 24, 2007; Other safety approvals as required by individual countries		
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		

[1] 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. [2] 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. [3] 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. 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. Learn more at hp.com/go/businessmobileprinting. Requires a compatible NFC-printing-enabled mobile device. For a list of compatible NFC-printing-enabled mobile devices, see hp.com/go/nfcprinting. [4] 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. [5] 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. [6] Paper handling accessories are offered separately and with an additional cost. [7] 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. [8] 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. [9] Acoustic values are subject to change. For current information see hp.com/support. Configuration tested: dn model, simplex printing, A4 paper at 43 ppm

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