Data sheet

HP LaserJet Enterprise M506 series



Get a faster startup, and help protect against threats with multi-level device security.

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



HP LaserJet Enterprise M506n



HP LaserJet Enterprise M506dh



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 guiet 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.
- Protect sensitive business data with embedded and optional HP JetAdvantage Security Solutions.9
- Centralize control of your print environment with HP Web Jetadmin®—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.

Stay connected with secure mobile printing options

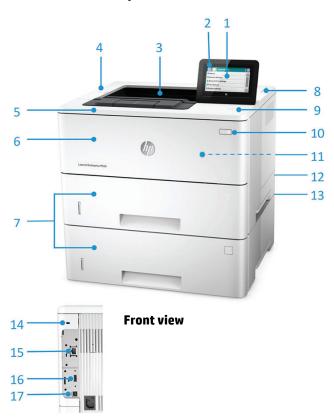
- Enable 128-bit encrypted wireless direct printing from mobile devices—without accessing the network.11
- Print with just a touch of your NFC-enabled mobile device to this printer—no network needed.12
- Easily access, print, and share resources with Ethernet and optional wireless networking.¹⁰

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 hp.com/go/liclaims' Nore pages versus predecessor cartridges claim based on page-yield comparison of HP 55X High Yield Black Original LaserJet Toner Cartridges with HP 97X High Yield Black Original LaserJet Toner Cartridges. For more information, see hp.com/go/learnaboutsupplies ³ Compared with the HP LaserJet Enterprise P3015. ⁴ Purchase of optional paper trays required to reach maximum input capacity. ⁵ 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/liclaims. ⁶ HP 87X High Yield Black Original LaserJet Toner Cartridges not included; please purchase separately. ⁷ Some features require additional purchase. A FutureSmart service pack update may be required to activate security features.Learn more at hp.com/go/printsecurity. ⁸ HP Web Jetadmin is free and available for download at hp.com/go/webjetadmin. ⁹ Some solutions require download or additional purchase. Learn more at hp.com/go/printingsolutions. 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. ¹¹ Wireless direct printing is standard on the HP LaserJet Enterprise M506 only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP LaserJet Enterprise M506s only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP LaserJet Enterprise M506s only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP LaserJet Enterprise M506s/dn. Mobile device must support Near Field Communicati

Product walkaround

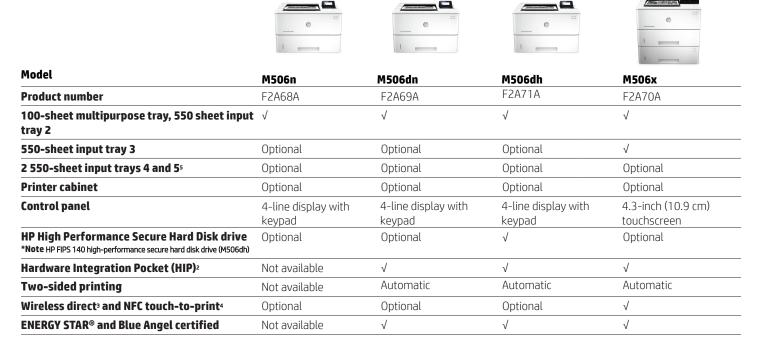
- 1. Intuitive 4.3-inch (10.9 cm) color VGA control panel tilts up for easier viewing
- 2. Home button (returns to home screen)
- 3. 250-sheet output bin
- 4. Easy-access USB port to print files directly
- 5. Top cover access to Original HP Toner cartridge with JetIntelligence
- 6. 100-sheet multipurpose tray
- 7. Two 550-sheet input trays for a 1,200 sheet total input capacity
- 8. Hardware Integration Pocket (HIP) for solution integration²
- 9. Built-in wireless direct3 /NFC touch-to-print4
- 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



Close-up of I/O ports

Series at a glance



'An administrator must enable the easy-access USB port before use. ²The Hardware Integration Pocket is only available for the HP Laser Jet 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. ³Wireless direct printing is standard on the HP Laser Jet Enterprise M506x only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP Laser Jet Enterprise M506r/dn. Mobile device needs to be connected directly to the Wi-Fi network of a wireless direct-capable MFP or printer prior to printing. ⁶Pouch-to-print capability is standard on the HP Laser Jet Enterprise M506x only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP Laser Jet Enterprise M506n/dn. Mobile device must support Near Field Communication (NFC)-enabled printing. For more information, see hp.com/go/businessmobileprinting. ⁵Based on ISO/IEC 19752 cartridge yields for HP S5X High Yield Black Original Laser Jet Toner cartridges compared with HP 87X High Yield Black Original Laser Jet 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—and keep users connected with Ethernet and optional wireless networking. Print with just a touch from mobile devices.12

Accessories

- HP LaserJet 550-sheet Paper Tray F2A72A F2A73A - HP LaserJet Printer Cabinet

G6W84A - 1GB DDR3 SlimDIMM

- HP Secure High Performance Hard Disk Drive (included in M506dh model) B5L29A

F5S62A - HP Trusted Platform Module Accessory F2A87A - HP Internal USB Ports for M506, M527 J8031A - HP Jetdirect 2900nw Print Server (USB) - HP Jetdirect 3000w NFC/Wireless Accessory J8030A

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	M506n(F2A68A)	M506dn(F2A69A)	M506dh(F2A71A)	M506x(F2A70A)
Print speed	Pisoon(i Endon)	Letter: Up to 45 ppm black; ¹⁸ ; First Page Out Black: As		PI300A(FZRTOR)
Print resolution	Black Dest: Un to 1200 x 1200 doi:			
Print Technology	Laser, Print Resolution Technologies; 300 dni, 600 dni, HP FastRes 1200, HP ProRes 1200			
Print Cartridges Number	Loser, Film Resolution Technologies, 300 opt, in Fashies 1200, in Filores 1200			
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 T Access USB, Two-Sided Printing, JetIntelligence cartridges, Mop Integration Pocket, On	ria-certified, Apple AirPrint™, HP ePrint, Hardware	FutureSmart Firmware, Open Extensibility Platform, Instant-on Technology, HP Auto-On/Auto-Off technolog Easy Access USB, Two-Sided Printing, Jethrelligence cartridges, Mopria-certified, wireless direct, NFC touch-t print, Apple AirPrint th , 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 Managed			
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, FTP, Port 9100, LPD, WS Discovery, IPP, Secure-IPP, XMPP, IPsec/Firewall; IPv6: DHCPv6, MLDv1, ICMPv6; IPv4: Auto-IP, SLP, Telnet, IGMPv2, B00TP/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 (standard for model M506dh)			
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, M506dn & M506x); Up to 650 sheets standard labels legal; Up to 1200 sheets standard labels legal; (Mpute Capacities: 250-sheet output bin; Up to 250 sheets standard labels legal; Up to 1200 sheets standard labels			
Product Dimensions	WxDx	H: 16.46 x 14.80 x 11.73 in ¹² ; Maximum: 16.46 x 25.16 x 11.73 ir	1	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 M506 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 ; HP FIPS 140 high-performance secure hard disk drive (M506dh only)			
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, U	p and Down arrow, Select, Back, Home, 12-key and Help); 3 LED in	dicator 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 (excluding RT OS for Tablets), Windows OS compatible with Universal Print Driver (From HP.com): Windows XP SP3 all 32-bit editions (excluding RT OS for Tablets), Windows OS compatible with Universal Print Driver (From HP.com): Windows XP SP3 32-& 64-bit editions (excluding RT OS for Tablets), Windows VB SP3 all 32-bit editions (Home Basic, Premium, Professional, etc.), Windows 7 all 32-& 64-bit editions, (windows JR)31 all 32-& 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32-& 64-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excluding RT OS for Tablets), Windows NB SP3 all 32-bit editions (excludin			
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-f64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 (2008 R2 32-f64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32-f64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32-f64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32-f64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 (SP1/SP2) Standard/Ent			
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), Undows 7 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 10.10 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			
	Acoustic Power Emissions: 6.8 B(A); Acoustic Pressure Emissions: 54 dB(A) ⁶			
Acoustics				
Acoustics Operating Environment Security Management		nended Operating Temperature: 63.5 to 77°F; Storage Temperat 80% RH; Recommended Humidity Oper rise, 802.1X authentication (EAP-PEAP, EAP-TLS), IPP over TLS, IPS	cure Range: -4 to 140°F; Non-Operating Humidity I ating Range: 30 to 70% RH	

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). ⁸ 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, Atual yields vary considerably based on images printed and other factors. For details see hp.com/go/learnaboutsupplies. ⁸ Acoustic values are subject to change. For current information see hp.com/support. Configuration tested: dn model, simplex printing, Ad paper at 43 ppm 7 but y cycle is defined as the maximum 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 or locally through HP or a participating retailer. Only available with Original HP supplies; Internet access required. To learn more, wist thp.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 new

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