

HP LaserJet Enterprise 5501 dn Printer (A29Z3A)



The powerful A4 enterprise printer for small teams

Simplify document workflows with blazing-fast speeds and customizable features. Seamlessly integrates with your existing fleet, scales for the future, and delivers industry-leading security to safeguard your data.



Get the power to be more productive

Save time with fast printer wake-up and print speeds up to 52 ppm to power through your tasks.
[2]

Simplify work with automated workflows

Wherever you are in your digital transformation, find the perfect fit—on-premises or cloud, tailored to you.

Protect what matters with the most secure printer[1]

Keep your work protected—HP Wolf silently detects and repairs your printer from cyberattacks.
[1]

Featuring

Save time and deliver print projects quickly with speeds up to 52 ppm.[2]

Easily connect your printer via reliable Ethernet or Hi-Speed USB.

Protect your network with quantum-resistant security against cyberthreats.[6]

HP Security Manager enforces policies and monitors your fleet.[4]

Keep your business ahead—this printer evolves with updates and new features.[3]

Easily deploy and integrate HP and third-party solutions with OXPd.



Specifications

Print Resolution Technologies	Normal (600x600 dpi with FastRes), Fine Lines (1200x1200 dpi), Quickview (300x300 dpi), Economode
Print Resolution Black (best)	Up to 1200 x 1200 dpi
Print Speed Black (normal, A4)	Up to 50 ppm
Print Speed Black (normal, letter)	Up to 52 ppm
Print Speed	Up to 52 ppm (black)
AIO Functions	Print
Duplex Print Options	Automatic
Duty Cycle (monthly, A4)	Up to 150,000 pages
Duty Cycle (monthly, letter)	Up to 150,000 pages ^[8]
Printer Smart Software Features	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs
Energy Savings Feature Technology	HP Auto-Off Technology; Instant-on Technology; Low-power sleep mode; Power save; TerraJet Toner
Replacement Cartridges	HP 159A Black Original LaserJet Toner Cartridge (~5,000 pages) W1590A; HP159X High Yield Black Original LaserJet Toner Cartridge (~10,000 pages) W1590X; HP159Y Extra High Yield Black Original LaserJet Toner Cartridge (~26,000 pages) W1590Y
Supplies Feature	HP TerraJet Cartridge
Connectivity, Std	1 Gigabit Ethernet 10/100/1000 Base-T network; 1 Hardware Integration Pocket 2nd generation (HIP2); 1 Hi-Speed USB 2.0 (device); 1 Hi-Speed USB 2.0 (host)
Connectivity, Opt	HP Jetdirect 3200w WiFi 6 Bluetooth Wireless Accessory 9R1U0A; HP Jetdirect LAN Accessory 8FP31A
Network Capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); WiFi 2.4/5 GHz wireless networking (optional); Second Ethernet port (optional); Microsoft Universal Print (MUP) support
Wireless Capability	Optional, with wireless hardware accessory. Dual band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3200w WiFi 6 Bluetooth Wireless Accessory 9R1U0A.
Mobile Printing Capability	Apple AirPrint™; Mopria™ certified
Supported Network Protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, Apple AirPrint™, HP ePrint, FTP Print, Google Cloud Print; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPS, Telnet, TFTP Config, FTP FW Download, Syslog; Security: SNMPv3, SSL Cert Management, Firewall, ACL, 802.1x
Software Included	No software solutions are included in the Box, only on http://hp.com ;
Compatible Operating Systems	Windows 11 (64-bit and ARM64); Windows 10 (32-bit, 64-bit and ARM64); Android; iOS; macOS 14 Sonoma; macOS 15 Sequoia; macOS Tahoe v26; Linux: Debian 10; Linux: Debian 11; Linux: Elementary 6P; Linux: Fedora 31; Linux: Fedora 32; Linux: Fedora 33; Linux: Fedora 34; Linux: Fedora 35; Linux: Linuxmint 20.1; Linux: Linuxmint 20.2; Linux: ManjaroLinux 20.2; Linux: ManjaroLinux 21.0.7; Linux: Mxlinux 21; Linux: OpenSuse 15.1; Linux: OpenSuse 15.2; Linux: OpenSuse 15.3; Linux: Rhel 6; Linux: Rhel 7; Linux: Rhel 8; Linux: Ubuntu 20.04; Linux: Ubuntu 20.10; Linux: Ubuntu 21.04; Linux: Ubuntu 21.10; Linux: Zorin 15; Linux: Zorin 16; Chrome OS ^[14] ([14] Citrix Server versions updates release every quarter, for updates see https://www.citrix.com/en-in/downloads/citrix-virtual-apps-and-desktops/ ; Citrix XenApp & XenDesktop versions updates release every quarter, for updates see https://www.citrix.com/en-in/downloads/citrix-virtual-apps-and-desktops/ ; Citrix Ready Kit Certification - see http://citrixready.citrix.com for the latest qualification for HP Printers;)
Technical Features	Automatic 2-sided printing; Made with recycled plastic; ENERGY STAR®; Network printing; Fast first page out; HP Auto-on/Auto-off; Cloud-based fleet management; TerraJet Toner; Ethernet; Compact size
Sustainability Specifications	Recyclable through HP Planet Partners; Contains at least 5% post-consumer recycled plastic
Energy Star Certified	Yes
Ecolabels (fixed)	CECP; IT ECO Declaration; Blue Angel; EPEAT® Gold India; EPEAT® Gold Australia; EPEAT® Gold Canada; EPEAT® Gold US; SEPA; KOECO; EPEAT® registered; ENERGY STAR® certified; Korea MEPS; Vietnam MEPS
Blue Angel Compliance	Yes, Blue Angel DE-UZ 219—only ensured when using Original HP supplies
Display Area (imperial)	2.13 x 1.59 in
Display Area (metric)	54 x 40.5 mm
Display Description	2.7-in (6.86 cm) QVGA LCD (color graphics) display
Product Dimensions (metric)	400 x 400 x 305 mm
Product Dimensions (imperial)	15.7 x 15.7 x 12.0 in

Weight (metric)	~11.8 kg ^[4] (^[4] With print cartridges)
Weight (imperial)	~26.1 lb (^[4] With print cartridges)
Power Consumption Description	552.4 watts (Printing), 4.89 watts (Ready), 0.76 watts (Sleep), 0.02 watts (Auto-Off), 0.02 watts (Off) ^[10] (^[10] Power consumption values based on measurement of 115V device. 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.)
Power Supply Type	Built-in 3-Pin 115V or 220V Internal Power Supply
What Is In The Box	HP LaserJet Enterprise 5501dn Printer; HP Original LaserJet Toner Cartridge (~6,000 pages); Regulatory flyer; Unpack Flyer; Installation Guide; Power cord; Warranty Cards; Support flyers/phone number list ^[3]
Manufacturer Warranty	One-year, onsite warranty service. Warranty and support options vary by product, country and local legal requirements. Go to hp.com/support to learn about HP award winning service and support options in your region. (warranty code 4G; warranty ID A001)

Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

Messaging Footnotes

[1] HP's most advanced embedded security features are available on HP Managed and Enterprise devices with HP FutureSmart firmware 4.5 or above. Claim based on HP review of published features as of June 2025 of competitive in-class printers. Only HP offers a combination of security features to automatically detect, isolate, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. Printers are most vulnerable to attack when they are booting up and during runtime (when the printer is in sleep mode and in use). Only HP Enterprise printers protect the device during 100% of the printer's life with Sure Start BIOS protection, Memory Shield with hardware-based Runtime Intrusion Detection and Control Flow Integrity to detect and recover from zero-day threats in addition to Connection Inspector network behavioral anomaly detection all with self-healing recovery. For a list of compatible products, visit hp.com/go/PrintersThatProtect For more information, visit hp.com/go/PrinterSecurityClaims.

[2] 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.

Technical Specifications Footnotes

[3] In box cartridge yields 6,000 black pages based on ISO/IEC 19752 and continuous printing. Actual pages may vary considerably based on images printed and other factors. For more information, visit: <http://www.hp.com/go/learnaboutsupplies>.

[4] With print cartridges

[8] 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.

[10] Power consumption values based on measurement of 115V device. 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.

[14] Citrix Server versions updates release every quarter, for updates see <https://www.citrix.com/en-in/downloads/citrix-virtual-apps-and-desktops/>; Citrix XenApp & XenDesktop versions updates release every quarter, for updates see <https://www.citrix.com/en-in/downloads/citrix-virtual-apps-and-desktops/>; Citrix Ready Kit Certification - see <http://citrixready.citrix.com> for the latest qualification for HP Printers;

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