

## **Team Four Milestone 3**

[REDACTED], [REDACTED], Nicholas Ellis

October 6, 2025

## Executive Summary

In this Milestone 3 report, our team specifies the equipment necessary for the employees of Geezertown Investments to carry out the responsibilities detailed in the case scenario. Our primary concern is identifying hardware and software components that provide a reliable, secure, and expandable solution that aligns with the goals of the company – we have selected items that are enterprise-grade and cost effective. Important assumptions made by the team include the availability of IT personnel for installation and support, compatibility with previous designs, and user familiarity.

The hardware description specifies end-user devices such as desktops for on-site employees and laptops for travelling senior lifestyle consultants, as well as the appropriate peripheral devices. Communication devices, such as VoIP phones, smartphones, and conference phones, are further discussed in this milestone, though they were specified in Milestone 2. A printer has been specified for general business-related use by all Geezertown staff; additionally, a tower server was specified to host the server OS. Spares of each device are recommended to ensure the continuity of business operations.

The software description specifies software that is necessary for Geezertown's business operations or aids employees in completing their responsibilities. We've specified Windows Server 2022, as well as Windows operating systems and Client Access Licenses for all employees. For end-point security, each device will utilize Windows Defender, which comes with the operating system. A free VPN software developed by the same manufacturer as our firewall was specified, allowing seamless integration. Microsoft 365 subscriptions are provided for all employees providing access to important productivity and collaboration tools, and the free Cisco Webex software offers more flexibility in communication options.

Altogether, the hardware and software selected by our team provide a secure, reliable and scalable solution, enabling employees to perform effectively and efficiently. The estimated cost of all items specified in this milestone is \$87122.02.

## **Additional Assumptions**

Our team completed this milestone under the assumption that users will remain flexible to our team's decisions and training requirements for staff should be minimal. It is our understanding that adequate IT personnel are available during the deployment of new hardware/software and can assist with configuration, troubleshooting, and management. The team has developed this milestone report under the belief that the items specified in previous milestones were satisfactory and do not cause any interference or compatibility issues with newly specified systems. This includes potential interferences between 2.4GHz devices, or increasing power consumption rates, for example. Despite being a network device, we have included the tower server in this milestone as it is required for other specified items.

For required items with recurring payments, such as Microsoft 365 renewals, we assume it is acceptable to provide the total cost estimate for 1 year of service for all employees, and that Geezertown's IT staff will be responsible for renewal and management of these services. We also assume the correct model of all specified items is available for purchase and supports the existing proprietary web application and other company assets without additional charges. To avoid costs of time and labor, we have specified pre-built devices; we also opted for free versions of Cisco Webex and compatible VPN software and assume that the limits of these free versions are acceptable (such as the time limit for video conferences on Cisco Webex). Additionally, we assume that the physical environment of the new main office provides appropriate temperatures and ventilation for the safety of devices, and that the arrangement of devices and management of cables will be handled by the company's IT staff.

Much like previous milestones, we specified what we believe is an acceptable number of spare devices to ensure continuity of business operations. We assume that opting for more affordable peripheral device models with a limited life expectancy is acceptable, considering the potential for future growth or equipment upgrades. With the two different shifts at Geezertown Investments, we assume that at any given office hour, about half of the on-site employees are present; therefore, we believe the rough estimate of 1 device per 2 on-site employees is acceptable.

## Hardware Description

To effectively support the staff of Geezertown Investments in their daily responsibilities, a hardware infrastructure will be implemented in the new corporate office to ensure high performance and reliability. We've ensured all employee equipment specified in this milestone will meet Geezertown's requirement of enterprise-grade solutions and minimal downtime, while also allowing for future growth. Assumptions regarding the work environment, compatibility (with previous milestones or pre-existing Geezertown assets), training, etc., have been made as our team devised a plan to equip all employees with the necessary tools – these will be stated in the 'Additional Assumptions' section. The total estimated hardware cost for Geezertown Investments, including all end-user devices, peripherals, and a central server, is approximately \$66,392.20.

For the on-site Geezertown staff, we have selected about 50 of the Dell Slim Desktop models, which has an Intel Core Ultra 5 225 10 Core Processor, 16GBs of DDR5 Memory and a 512GB SSD, ensuring high performance and consistency. For the traveling consultants, we have specified about 25 Dell 16 Plus Laptop (16 in.), which is lightweight and has up to 22hrs of battery life; it contains an AMD Ryzen AI 7 350 8-core processor, 16GB LPDDR5X Memory, and a 1TB SSD. The desktop model was chosen to ensure high performance and consistency, the laptop was chosen for similar reasons, while also considering weight and battery life. Both devices come with Windows 11 Home preinstalled, so their price is not included in the total cost estimate (OS choice is further explained in the Software Description). Employees will be provided with the appropriate peripherals for their device, further discussed below.

The number of desktop models is also meant to supply the management team and IT staff; the management team will need the device to access customized web applications to oversee company operations, and IT staff will need the device to troubleshoot and maintain the on-site equipment, as well as configuring and managing the network equipment. Additionally, to host the Windows Server 2022 Operating System, we have specified the Dell PowerEdge T160 Tower Server, which centralizes many of

the responsibilities of the IT staff and management team. Its reliable performance, compatibility with Windows Server 2022, and its 'target-clientele' being small to medium enterprise businesses, makes it the perfect choice for the scenario.

The specific model of mouse specified is the Logitech M185 Wireless 2.4GHz, which will connect to each of the desktops (and laptops, per request) via USB receiver; we recommend about 70 of these. We plan to order 60 of the Logitech K270 Wireless 2.4GHz Keyboard, which also connects to the desktops via USB receiver. Wireless devices were chosen to reduce clutter and prevent disorganization or potential hazards like loose wires. The Logitech H390 Wired USB-A On-Ear Stereo Headphones with Noise Cancelling Microphone will be ordered for every desktop and laptop, as well as a few spares – about 80 in total. These headsets will be used by travelling consultants and/or the on-site employees in case of any company-related resources containing audio, or for virtual conferences with Geezertown staff. Finally, the display device specified for each of the desktops is the HP V24v G5 FHD Monitor, which comes with an HDMI cable that will be used to connect to the desktop.

To serve Geezertown's clients, and for communication between staff members, all on-site employees' workstations will have a Cisco 8845 VoIP phone (which was specified in Milestone 2). The Cisco 8845 features HD audio, headset support, and integrated video calling, making it a perfect option for supporting our team, especially call center associates. Similarly, for the travelling consultants, the 3 outside sale managers, and 1 director to carry out any necessary communications, the Samsung Galaxy A36 5G Smartphone was specified (Milestone 2). The Samsung A36 was chosen due to its strong performance and compatibility with pre-existing network and telephone infrastructure. Additionally, we've equipped each of the conference rooms of the new office with the Polycom RealPresence trio 8800, which integrates into our system seamlessly and supports high quality audio conferencing (Milestone 2). For general office use (for all employees), we have specified the HP LaserJet Pro M501dn Printer for its high reviews of reliability and its capability of printing 45 pages per minute; this should be plenty given most of Geezertown's business operations and data are digital.

## Software Description

To support daily operations at Geezertown Investments, a unified and secure software environment emphasizing reliability, accessibility, and compatibility, will be implemented across all departments. Some items referenced in this section were specified in the previous milestone and aren't included in the final cost. This section, which includes operating systems, communication suites, and endpoint security options, comes to an estimated total of \$20,729.82.

All company desktops and laptops will come preinstalled with Windows 11 Pro, which provides a highly intuitive interface, seamless compatibility with Microsoft 365, and robust security provided by Windows Defender, while being a more familiar option than open-source alternatives like Linux. The company's server will operate Windows Server 2022 Standard, which ensures seamless integration with employee systems and provides organized authentication and file management; we also ensured to specify the required Client Access Licenses for all 100 employees. The total cost includes the price of one-year subscriptions of Microsoft 365 Business Standard for all 100 employees, which provides necessary documentation and collaboration tools including Word, Excel, PowerPoint, Outlook, Teams, and OneDrive, allowing secure file sharing and cloud-based functionalities. The free version of Cisco Webex is recommended as an additional platform option for synchronous, virtual meetings, as it integrates seamlessly with the Cisco Unified Communications Manager (CUCM). The CUCM and VoIP system specified in Milestone 2 serve as the main methods of communication.

Due to the nature of Geezertown's business operations, privacy and security of client information and other company assets is of the utmost importance. For secure remote connectivity, the free VPN-only version of the FortiClient will be installed on all Senior Lifestyle Consultants laptops. This software integrates directly with the Fortinet FortiGate firewall, ensuring encrypted connections for remote users. The IT staff will use Cisco Catalyst Center and FortiAnalyzer Cloud (both specified in Milestone 2), for persistent monitoring, device management, and threat detection. Combined with Windows Defender, these tools provide a layered security approach without additional software costs.

## **Appendix: Items to Purchase**

X

## Dell Slim Desktop

### Tech Specs

Order Code useecs1250hbshmgj

#### Processor

Intel® Core™ Ultra 5-225 processor (10 Cores, 20MB Total Cache, 3.3GHz)

#### Operating System

(Dell Technologies recommends Windows 11 Pro for business)  
Windows 11 Home

#### Graphics Card

Intel® UHD Graphics

#### Memory

16 GB: 1 x 16 GB, DDR5, 5600 MT/s

#### Storage

512 GB, M.2, PCIe NVMe, SSD

#### Microsoft Office

Activate Your Microsoft 365 For A 30 Day Trial

#### Home and Small Business Security Solutions

McAfee+ Premium 30-day trial

#### Hardware Support Services Upgrades

Basic Onsite Service after remote diagnosis with Hardware-Only Support, 12 Month(s)

#### Accidental Damage Service

None

#### Keyboard

Dell Wired Keyboard - KB216 - US English - Black

#### Mouse

Dell Wired Mouse - MS116 - Black

#### Ports

##### Front

2 USB 2.0 (480 Mbps) ports  
1 USB 3.2 Gen 1 (5 Gbps) port  
1 USB 3.2 Gen 1 (5 Gbps) Type-C® port  
1 Global headset jack  
Power button  
Media Card Reader

##### Rear

Power Supply  
Power Indicator  
Kensington Lock Slot  
2 USB 2.0 (480 Mbps) ports with Smart Power On  
2 USB 3.2 Gen 1 (5 Gbps) ports  
1 HDMI 2.1 (TDMs) port  
1 RJ45 (1 Gbps) Ethernet port

**For computers shipped with an Intel® Core™ Ultra 5 225 or Intel® Core™ Ultra 7 265 processor:**  
1 DisplayPort™ 1.4 (HBR3) port

**For computers shipped with an Intel® Core™ i3 14100, Intel® Core™ i5 14400 or Intel® Core™ i7 14700 processor:**  
1 DisplayPort™ 1.4 (HBR2) port

#### Optical Drive

N/A

#### Slots

**For computers shipped with an Intel® Core™ i3 14100, Intel® Core™ i5 14400 or Intel® Core™ i7 14700 processor:**  
1 half-height Gen3 PCIe x16 slot  
2 half-height Gen3 PCIe x1 slots  
1 M.2 2230 slot for Wi-Fi and Bluetooth combo card  
1 M.2 2230/2280 slot for solid-state drive  
1 SD-card slot (optional)  
1 SATA 3.0 slot for 3.5-inch hard drive



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## Dell Slim Desktop

[4.6 \(928\)](#)



Ports and slots Dimensions and weight



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### Financing Offers

Get 12 months special financing<sup>B</sup> on purchases \$799+ and by opening a Dell Pay Credit Account, earn \$50 (5K points) in Dell Rewards<sup>D</sup> dollars when enrolled in Dell Rewards. Valid through 10/29/2025.

[Pre-Qualify](#) [Learn More](#)

Order Code useecs1250htshmgj

### Space-saving performance

Compact desktop for everyday productivity and creativity.

#### 1. Select a base model

[Tower Plus](#)[Tower](#)[Slim](#)

#### 2. Select a configuration

Dell Technologies recommends Windows 11 Pro for business. Warranty support options vary by operating system: Dell offers support plans for businesses with Windows Pro and support plans for personal use with Windows Home.

\$749.99

or \$125/mo for 6-mo. on Dell Pay Credit [Details](#)



Processor

\$699.99

or \$117/mo for 6-mo. on Dell Pay Credit [Details](#)



Processor

Virtu Assistant

Intel® Core™ Ultra 5 225, 10 cores

Operating System

Windows 11 Home

Graphics Card

Intel® UHD Graphics

Memory

16 GB DDR5

Storage

512 GB SSD

**Tech Specs**[Add to Cart](#) Get it as soon as Tuesday, Oct 28[View Delivery Dates for 29572](#)

DELL REWARDS Earn 3X (9%) back on all PC accessories and monitors for a limited time

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Intel® Core™ Ultra 5 225, 10 cores

Operating System

Windows 11 Pro

Graphics Card

Intel® UHD Graphics

Memory

16 GB DDR5

Storage

512 GB SSD

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Choose from all available specs to build a custom computer

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Intel® Core™ Ultra 5-225 processor (10 Cores, 20MB Total Cache, 3.3GHz)

**Operating System**

(Dell Technologies recommends Windows 11 Pro for business)

Windows 11 Home

**Graphics Card**

Intel® UHD Graphics

**Memory**

16 GB: 1 x 16 GB, DDR5, 5600 MT/s

**Storage**

512 GB, M.2, PCIe NVMe, SSD

**Microsoft Office**[Activate Your Microsoft 365 For A 30 Day Trial](#)**Home and Small Business Security Solutions**

McAfee+ Premium 30-day trial

**Hardware Support Services Upgrades**

Basic Onsite Service after remote diagnosis with Hardware-Only Support, 12 Month(s)

**Accidental Damage Service**

None

**Keyboard**

Dell Wired Keyboard - KB216 - US English - Black

**Mouse**

Dell Wired Mouse - MS116 - Black

**Ports****Front**

2 USB 2.0 (480 Mbps) ports

1 USB 3.2 Gen 1 (5 Gbps) port

1 USB 3.2 Gen 1 (5 Gbps) Type-C® port

1 Global headset jack

Power button

Media Card Reader

**Rear**

Power Supply

Power Indicator

Kensington Lock Slot

2 USB 2.0 (480 Mbps) ports with Smart Power On

2 USB 3.2 Gen 1 (5 Gbps) ports

1 HDMI 2.1 (TDMs) port

1 RJ45 (1 Gbps) Ethernet port

**For computers shipped with an Intel® Core™ Ultra 5 225 or Intel® Core™ Ultra 7 265 processor:**

1 DisplayPort™ 1.4 (HBR3) port

**For computers shipped with an Intel® Core™ i3 14100, Intel® Core™ i5 14400 or Intel® Core™ i7 14700 processor:**

1 DisplayPort™ 1.4 (HBR2) port

**Optical Drive**

N/A

X

## Dell 16 Plus Laptop

### Display

16.0-inch 16:10 2K (1920 x 1200) Touch 300nits WVA Display with ComfortView

### Memory

16GB, LPDDR5X, 7500MT/s

### Storage

1 TB, M.2, PCIe NVMe, SSD

### Case

Ice Blue

### Microsoft Office

Activate Your Microsoft 365 For A 30 Day Trial

### Home and Small Business Security Solutions

McAfee+ Premium 30-day trial

### Hardware Support Services Upgrades

Basic Onsite Service after remote diagnosis with Hardware-Only Support, 12 Month(s)

### Accidental Damage Service

None

### Keyboard

English Backlit Copilot key keyboard, numeric keypad

### Ports

2 USB-C 3.2 Gen 2 (10Gbps) with Power Delivery and DisplayPort™

1 USB 3.2 Gen 1 Type-A

1 HDMI 1.4\*

1 Universal Audio Jack

\*The maximum resolution supported over HDMI is 1920x1080 @60Hz. No 4K2K output.

### Dimensions & Weight

Height: 0.67 in. (16.99 mm)

Width: 14.05 in. (356.78 mm)

Depth: 9.87 in. (250.60 mm)

Starting Weight: 4.03 lb (1.83 kg)

### Touchpad

Precision touchpad

### Camera

1080p at 30 fps FHD camera, Dual-array microphones

### Audio and Speakers

Stereo speakers with Realtek SoundReal and support for Dolby Atmos decoder, 2.5 W x 2 = 5 W total peak

### Chassis

#### Exterior chassis materials:

LCD Cover/Base: Aluminium

Bezel/Palmrest: Plastic

#### Color options:

Ice Blue

#### Touchpad material:

Mylar

Color options: Color match to chassis

### Wireless

MediaTek Wi-Fi 7 MT7925, 2x2, 802.11be, MU-MIMO, Bluetooth® wireless card

### Primary Battery

4-Cell Battery, 64WHr (Integrated)

### Power

65W Type-C Adapter

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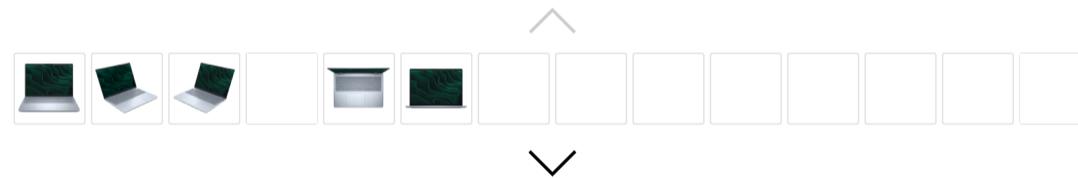
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## Dell 16 Plus Laptop

Model: DB16255

[★★★★★ 4.6 \(135\)](#)

Ports and slots Dimensions and weight



Price Match Guarantee | [Free Shipping](#)

### Financing Offers

Get 12 months special financing<sup>B</sup> on purchases \$799+ and by opening a Dell Pay Credit Account, earn \$50 (5K points) in Dell Rewards<sup>D</sup> dollars when enrolled in Dell Rewards. Valid through 10/29/2025.

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Order Code usedb16255hbtshptp

### Designed for creativity

Built-in AI with a spacious display - designed for creators and developers who demand performance and style.

#### 1. Select a base model

[16 in.](#)

[14 in.](#)

#### 2. Select a configuration

Copilot+ PC

\$849.99

or \$71/mo for 12-mo. on Dell Pay Credit [Details](#)



Processor

Copilot+ PC

\$649.99

or \$109/mo for 6-mo. on Dell Pay Credit [Details](#)



Processor

Virtu Assistant

AMD Ryzen™ AI 5 340, 6 cores

Operating System

Windows 11 Home

Graphics Card

AMD Radeon™ Graphics

Memory

16 GB LPDDR5X

Storage

512 GB SSD

Display

16.0-inch 16:10 2K Touch 300nits WVA Display with ComfortView

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Special Offers 1

AMD Ryzen™ AI 7 350, 8 cores

Operating System

Windows 11 Home

Graphics Card

AMD Radeon™ Graphics

Memory

16 GB LPDDR5X

Storage

1 TB SSD

Display

16.0-inch 16:10 2K Touch 300nits WVA Display with Co

**Tech Specs** Get it as soon as Tuesday, Oct 28[View Delivery Dates for 29572](#)DELL **REWARDS** Earn 3X (9%) back on all PC accessories :

Special Offers 1

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[Customize now →](#)[Customization](#)[Tech Specs](#)[Features](#)[Reviews](#)[Support](#)**Tech Specs****Processor**

AMD Ryzen™ AI 5 340 Processor (50 TOPS NPU, 6 cores, up to 4.8 GHz)

**Operating System**

(Dell Technologies recommends Windows 11 Pro for business)

Windows 11 Home, Copilot+ PC

**Graphics Card**

AMD Radeon™ Graphics

**Display**

16.0-inch 16:10 2K (1920 x 1200) Touch 300nits WVA Display with ComfortView

**Memory**

16GB, LPDDR5X, 7500MT/s

**Storage**

512 GB, M.2, PCIe NVMe, SSD

**Case**

Ice Blue

**Microsoft Office**

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McAfee+ Premium 30-day trial

**Hardware Support Services Upgrades**

Basic Onsite Service after remote diagnosis with Hardware-Only Support, 12 Month(s)

**Accidental Damage Service**

None

**Keyboard**

English Backlit Copilot key keyboard, numeric keypad

**Ports**

2 USB-C 3.2 Gen 2 (10Gbps) with Power Delivery and DisplayPort™

1 USB 3.2 Gen 1 Type-A

1 HDMI 1.4\*

1 Universal Audio Jack

\*The maximum resolution supported over HDMI is 1920x1080 @60Hz. No 4K2K output.

**Dimensions & Weight**

Height: 0.67 in. (16.99 mm)

Width: 14.05 in. (356.78 mm)

Depth: 9.87 in. (250.60 mm)

Starting Weight: 4.03 lb (1.83 kg)

**Touchpad**

Precision touchpad

**Camera**

1080p at 30 fps FHD camera, Dual-array microphones

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## HP LaserJet Pro M501dn Printer

[^](#)[▼](#)

4.5 (83)

**ENERGY STAR | BUSINESS**

MSRP

**\$759.00**



Pay As Low As \$64 per month for 12 months with the HP Credit Account. Total Payments of \$759<sup>^</sup> [Learn More](#) | [Prequalify Now\\*](#)

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## Product innovation

We're making sustainability a key part of our design process, and we're developing solutions that result in less waste or increase recycled content.

## Forest partnerships

We work with recognized non-profit organizations on a science-based approach to forest conservation.

## Forest-positive printing

We're helping you take action by providing tools to reduce waste, recycle or select products.

1. HP works collaboratively with our partners including WWF and Conservation International to manage, restore, and protect forests in many countries around the world. With HP, every print regardless of paper brand is addressed through HP's Forest Positive Framework to counteract risks of deforestation. To learn more visit [hp.com/forestfirst](http://hp.com/forestfirst).

### Features

### Technical details

HP LaserJet Pro M501dn Printer is rated 4.3 out of 5 by 50.

Rated 5 out of 5 by A.R. from Owner Good printing speed and functionality.

Date published: 2023-06-01

Rated 4 out of 5 by "Control" from Too new to rate Too new to rate. Only 20 pages printed. OK so far.

Date published: 2023-05-08

Rated 5 out of 5 by LNBI from Super-fast printer! Super-fast printing. Printing on both sides is really fast! But a bit loud when printing. Love that the paper tray holds 550 sheets so have to refill paper less frequently.

Date published: 2023-04-28

Rated 5 out of 5 by TSSSS from Speedy print So fast!! I didn't realize how slow the old one was

Date published: 2023-03-17

Rated 5 out of 5 by Henry F from HP Laser Jet Pro M501dn It appears to be a very good printer. It is better than my previous printer.

Date published: 2023-02-17

Rated 5 out of 5 by JIM F1 from M501DN WORKHORSE FAST, THELCT IS GREAT

Date published: 2023-02-10

Rated 1 out of 5 by CCCR from Web printing sucks, I want to return this printer I cannot enable web services and I reached out multiple times for support to no avail. I would like to return this printer because the only reason I bought it was so I could print orders in the office from home.

Date published: 2023-01-15

Rated 5 out of 5 by DorrieL from Recommended Pros: Works great. Fast. Big paper tray. Fantastic upgrade from M404. Large toner will yield 18,000 copies.

Cons: Expensive. Toner is very expensive.

Date published: 2022-12-09

- [HP LaserJet Pro M501dn Printer Reviews - page 2](#)

### **Can a tray be added for 11x17 printing?**

Asked by: archit

Thank you for your question! No, the HP LaserJet Pro M501dn is not compatible with ledger or 11" by 17" printing.

Answered by: HP Team Grant

Date published: 2025-02-07

### **Is there an envelope feeder available for this model? If not, would an HPM604 envelope feeder fit this model?**

Asked by: krissy379

Hello Krissy and thank you for your question! Unfortunately, this HP LaserJet Pro M501dn will not be compatible with an envelope feeder.

Answered by: HP Team Grant

Date published: 2023-05-27

### **Black and white laser printer with micr ink toner**

Asked by: Vicki19067

Thank you for your question! For MICR compatible HP printers, please visit this link: <https://www.troygroup.com/>

Answered by: HP Team Grant

Date published: 2024-07-22

### **This is very important - Can I print a single shipping label (4 X 5) in the feeder tray? It is our company's labels. I think I also read where I can print envelopes from the printer feeder tray.**

Asked by: Wendy-LVW CPA PC

Hello Wendy and thank you for your question! Yes, this HP LaserJet Pro M501dn is compatible with: Tray 1: 4 x 6 in, 5 x 8 in, Letter, Legal, Executive, Oficio 8.5 x 13 in, Envelope No. 10, Monarch, Custom. Tray 1 is your feeder tray. This will be compatible with 4" by 5" shipping labels.

Answered by: HP Team Grant

Date published: 2023-02-15

### **Can I order an extra paper tray? And how much are they?**

Asked by: Misdannies

Thank you for your question! Yes, you can order an additional paper tray for the HP LaserJet Pro M501dn, you can find the compatible paper tray here: <https://www.hp.com/us-en/shop/pdp/hp-laserjet-550-sheet-paper-tray>

Answered by: HP Team Maddie

Date published: 2025-05-16

## **what is the number to order the extra 500 sheet paper tray for the Laser Jet Pro M501dn printer???**

Asked by: llph

Thank you for your question! The extra paper tray for this HP LaserJet Pro M501dn is the F2A72A. That tray is available at this link: <https://www.hp.com/us-en/shop/pdp/hp-laserjet-550-sheet-paper-tray>

Answered by: HP Team Grant

Date published: 2023-05-27

## **What is the release date of the Model HP Laserjet Pro M501dn?**

Asked by: Anonymous

Hello. Thanks for your question. The HP LaserJet Pro M501dn printer has been active since 2016.

Answered by: HP Team Cheri

Date published: 2024-08-17

## **Does it work with server versions 2019 & 2022?**

Asked by: Anonymous

Yes, this HP LaserJet Pro M501dn will be compatible with Windows Server 2019.

Answered by: HP Team Grant

Date published: 2023-05-06

- [HP LaserJet Pro M501dn Printer Questions - page 2](#)

### Return and exchange information

HP.com will accept returns or exchanges for this product up to 30 days from the date of delivery. A 15% restocking fee may apply. For details, please visit: <https://www.hp.com/us-en/shop/cv/returnsandexchanges>.

 FREE shipping & Easy returns

 Order by Phone +1(877)-499-2394

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 HP Sustainable buyer's guide



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 FEEDBACK

### Product Disclaimers

#### OVERVIEW

[1] Based on HP internal testing of top three leading competitors' first page out from sleep mode and duplex print speed completed 12/2015. 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 comparisons of TEC (Typical Electricity Consumption) data reported on energystar.gov for mono laser printers with > 1% worldwide market share as reported by IDC as of Q3 2015, available worldwide and with print speeds of 40-50 ppm (A4). Actual results may vary. Learn more at <http://www.hp.com/go/ljclaims>

[4] Requires purchase of separate USB flash drive with at least 16 GB capacity.

[5] Measured using ISO/IEC 17629. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

[6] Measured using ISO/IEC 24734 Feature Performance Test; 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.

[7] Purchase of optional paper trays required to reach maximum input capacity.

[8] HP Web Jetadmin is available for download at no additional charge at <http://www.hp.com/go/webjetadmin>

[9] Based on HP internal secured data (Device Security Comparison January 2015), and Solutions Report on HP JetAdvantage Security Manager 2.1 from Buyers Laboratory LLC, February 2015. Requires separate purchase. For details, see <http://www.hp.com/go/securitymanager>

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

[11] An FCC Class A emissions compliant device meets the less stringent (higher) levels of emissions allowed by the FCC for a product operation in a commercial environment. An FCC class A device cannot be marketed for use in a residential environment and an FCC class A device should not be purchased for use in a residential environment due to the increased risk of interference to radio communications.

#### FEATURES

#### SPECS

[1] EPEAT® registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.

[2] Includes control panel height and 4mm side handle protrusions

All ▾

2.4ghz wireless usb mouse for workplace

EN ▾

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# Compact and comfortable



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with USB  
12-Month  
1000 DPI  
1g,

p - Swift

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USB Receiver

Bluetooth

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## Specs and Compatibility



### Dimensions

#### Mouse

Height: 3.90 in (99 mm)

Width: 2.36 in (60 mm)

Depth: 1.54 in (39 mm)

Weight (with batteries): 2.65 oz (75.2 g)

### Technical Specifications

#### Sensor technology

- Smooth optical tracking
- DPI (Min/Max): 1000±

#### Buttons

Number of Buttons : 3 (Left/Right-click, Middle click)

#### Customization app

Supported by Logi Options+ on Windows and macOS<sup>2</sup>

#### Scrolling

- Line-by-line scrolling
- Scroll Wheel: Yes, 2D, mechanical

#### Battery

Battery: 12 months<sup>2</sup>

Battery Details: 1 x AA (included)

#### Connectivity

- Connection Type: 2.4 GHz wireless connection
- Wireless range: 33 ft (10 m)
- Connect / Power: Yes, on/off switch

### System Requirements

#### Required: Available USB Port

#### Windows 10, 11 or later

#### macOS 10.5 or later

#### ChromeOS

#### Linux® kernel 2.6+ or later

Internet access required to download optional customization app Logi Options+.<sup>2</sup>

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Harbfurine Wireless Keyboard,  
2.4G USB External Silent  
Cordless Keyboard for

4.3      640

\$16.94



Logitech K270 Wireless  
Keyboard for Windows, 2.4  
GHz Wireless, Full-Size,

4.5      113,110

\$24.99



Logitech K120 Wired  
Keyboard for Windows, Plug  
and Play, Full-Size, Spill-

4.6      8,695

\$11.99

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**Logitech K270 Wireless  
Keyboard for Windows, 2.4  
GHz Wireless, Full-Size,  
Number Pad, 8 Multimedia  
Keys, 2-Year Battery Life,  
Compatible with PC,  
Laptop, Black**

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4.5      (113,110) | [Search this page](#)

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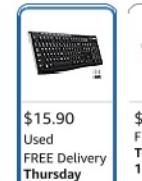
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**1 Pack**

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Style: **Keyboard**

**Combo**

**Keyboard**

Brand      **Logitech**

Compatible Devices      Laptop, PC

Connectivity Technology      Wireless  
Technology

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## Specs and Compatibility



### Dimensions

Height: 5.87 in (149 mm)  
Width: 17.38 in (441.5 mm)  
Depth: 0.71 in (18 mm) at front, 22 mm at back  
Weight: 17.57 oz (498 g)

### Technical Specifications

#### Connection Type

- Logitech Unifying protocol (2.4 GHz)
- Wireless range: >33 ft (10m) wireless range<sup>2</sup>

#### Battery

- Battery: 24 months<sup>2</sup>
- Battery: 2 x AAA (included)

#### Special Keys

Hotkeys (e.g. Internet, e-mail, Media Keys, Volume)

#### Key Life

Up to 5 million keystrokes

#### Sustainability

Black plastics : 38% post-consumer recycled material<sup>3</sup>

## System Requirements

### Computers that support external keyboards.

Windows 10, 11 or later USB connection: Available USB port required.

## Warranty Information

3-year limited hardware warranty

## Part Number

Rose English US (QWERTY) : 920-013289

Black English US (QWERTY) : 920-003051

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HOME / ACCESSORIES / **HP V24v G5 FHD MONITOR**

## HP V24v G5 FHD Monitor



4.6 (557)

MSRP

**\$159.99**

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Estimated arrival date: Wed, Oct 29 - Fri, Oct 31

HURRY, LAST FEW REMAINING Ships on Oct. 27, 25

Other offers available with the product:

FREE Storewide Shipping



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## Panel specifications

<b>Display size</b>	• 23.8-inch diagonally measured
<b>Panel technology</b>	• VA
<b>Maximum refresh rate</b>	• 75 Hz
<b>Panel bit depth</b>	• 8 bit (6bit + FRC)
<b>Aspect ratio</b>	• 16:9
<b>Brightness</b>	• 250 nits
<b>Resolution</b>	• Full HD (1920 x 1080)
<b>Contrast ratio</b>	• Static: 3000:1 • Dynamic: 10M:1
<b>Low-blue light</b>	• TÜV certified
<b>Flicker free</b>	• Yes
<b>Scan rate</b>	• Horizontal: 54 kHz - 84.3 kHz • Vertical: 48 Hz - 75 Hz
<b>Pixel pitch</b>	• 0.27 x 0.27
<b>Backlight</b>	• Lamp life: 30K • Type: Edge-lit
<b>Screen treatment</b>	• Anti-glare • 3H hardness • 25% haze
<b>Response time</b>	• 5ms GtG (with overdrive)
<b>Viewing angle</b>	• Horizontal: 178° • Vertical: 178°
<b>Synchronization technology</b>	• AMD FreeSync™ technology

## Monitor specifications

<b>Bezel</b>	• 3-sided borderless
<b>Exterior color</b>	• Bezel: Black • Stand: Black
<b>Connectivity/ports</b>	• 1 HDMI 1.4 • 1 VGA • HDCP support for HDMI
<b>Power</b>	• Power supply: Internal • Power source: 100 – 240 VAC 50/60
<b>VESA mounting</b>	• 100 mm x 100 mm (mounting bracket not included)
<b>Height adjustable stand range</b>	• No
<b>Tilt range</b>	• -5 to +23°
<b>Pivot</b>	• No
<b>Swivel</b>	• No
<b>Security lock ready</b>	• Standard security lock slot
<b>Detachable stand</b>	• Yes
<b>Languages</b>	• 11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)

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4AA8-1863ENUC July 2022

<b>On screen display</b>	• User programmable modes: 10 • User assignable function buttons: 4 (VGA: 7 options, HDMI: 6 options)
--------------------------	--

<b>Software</b>	• HP Display Center
-----------------	---------------------

## Accessories & warranty

<b>What's in the box</b>	• Power cord • HDMI cable • Quick set up guide • Document kit • Warranty
<b>Warranty</b>	• Protected by a one-year HP limited warranty. Certain restrictions and exclusions apply. <sup>(7)</sup>

## Approvals & certifications

<b>Environmental certifications</b>	• ENERGY STAR® Certified • EPEAT® Gold <sup>(3)</sup>
<b>Agency approvals</b>	• Microsoft WHQL Certification: Windows 11, 10, 8, 7 • WW application • CE,CB,KC/KCC/NOM/PSB/ICE/TUV-Bauart/ISO 9241-307/TUV flicker free/ TUV LBL/ BIS/ UAE safety/ UAE RoHS/ Ukraine safety/ South Africa safety/ EAC/CSA/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/TCO Certified Edge/Energy Star/ISC/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New Zealand MEPS/WEEE/CEC

## Product/package specifications

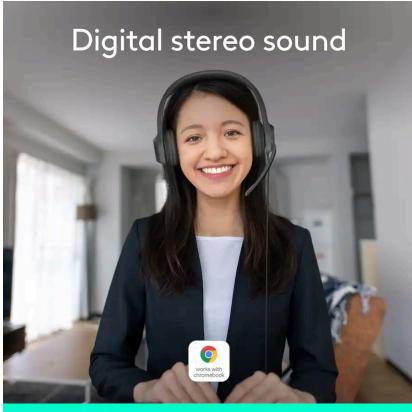
<b>Base area footprint</b>	• 6.85 in x 6.69 in
<b>Unpackaged dimensions</b>	• 21.22 in x 7.11 in x 15.66 in
<b>Unpackaged weight</b>	• 7.41 lb
<b>Packaged dimensions</b>	• 23.43 in x 4.88 in x 15.39 in
<b>Packaged weight</b>	• 11.24 lb

## Additional information

<b>Product number</b>	• 65P62AA#ABA
<b>UPC Code</b>	• 196548193998
<b>Ad embargo date</b>	• 9/04/2022
<b>Country of origin</b>	• China
<b>Pallet information</b>	• <b>Dimensions:</b> 39.37 in x 47.17 in x 82.01 in • <b>Total weight:</b> 975 lb • <b>Layers:</b> 5 • <b>Products per layer:</b> 16 • <b>Total products per pallet:</b> 80



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Logitech

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## Logitech - H390 Wired USB-A On-Ear Stereo Headphones with Noise Canceling Microphone - Black

Model: 981-000014 SKU: 9618932

[4.5 \(6,811 reviews\)](#)

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Color: Black



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## Specs and Compatibility



### Dimensions

#### Headset

Height: 6.73 in (171 mm)  
Width: 5.94 in (151 mm)  
Depth: 2.68 in (68 mm)  
Weight: 6.9 oz (197 g)

### Technical Specifications

#### Microphone

- **Type:** Bi-directional
- **Microphone Frequency response:** 100~10 kHz
- **Sensitivity:** -17 dBV/Pa ±4 dB

#### Connectivity

**Cable length:** 1.9 m

#### Materials

**Product Materials:** Plastic, silicon, metal

#### System Requirements

**Requirements:** Works with Windows, Mac, or ChromeOS computers via available USB port (USB-A or USB-C port, depending on the model you purchase). Compatible with common calling and video meeting applications.

#### Sustainability

- **Responsible Packaging:** FSC™-certified
- **Recycled Plastics:** 54% post-consumer recycled material for Black, 53% for Graphite, 42% for Off-white and Rose. Excludes plastic in Electronic (EE) Components, cables, printed wiring assembly (PWA), and packaging.
- **Product carbon footprint:** 4,78 kg CO<sub>2</sub>e

#### Speakers

- **Frequency response:** 20~20 kHz
- **Sensitivity:** 94 dB ±3 dB
- **Driver size:** 30 mm
- **Driver impedance:** 32 Ω Ohm

### Warranty Information

2-Year Limited Hardware Warranty

### Part Number

Black USB-A : 981-000014

[https://www.logitech.com/en-us/shop/p/h390-usb-headset.981-000014?utm\\_source=Google&utm\\_medium=Paid-Search&utm\\_campaign=DEPT\\_FY26...](https://www.logitech.com/en-us/shop/p/h390-usb-headset.981-000014?utm_source=Google&utm_medium=Paid-Search&utm_campaign=DEPT_FY26...) 1/6

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## PowerEdge T160 Tower Server

Starting at \$1,069.00

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## PowerEdge T160 Tower Server

Selections may result in additional updates to the overall configuration, which may impact the price for Support and Services and the total overall price and savings for this product.

### ▼ Components(javascript:::)

#### Base

- |   |          |
|---|----------|
| <input checked="" type="radio"/> PowerEdge T160 Server  | Selected |
| <input type="radio"/> PowerEdge T160 Smart Value        | \$0.00   |
| <input type="radio"/> PowerEdge T160 Server, NativeEdge | \$0.00   |

#### Trusted Platform Module

- |   |           |
|---|-----------|
| <input checked="" type="radio"/> No Trusted Platform Module | Selected  |
| <input type="radio"/> Trusted Platform Module 2.0 V6        | + \$37.71 |

#### Chassis Configuration

- |   |           |
|---|-----------|
| <input type="radio"/> 3.5" Chassis with up to 3 Cabled Hard Drives (SATA), 300W Cabled Power Supply                             | - \$3.43  |
| <input type="radio"/> 3.5" Chassis with up to 3 Cabled Hard Drives (SAS/SATA), PERC, 300W Cabled Power Supply                   | - \$3.05  |
| <input checked="" type="radio"/> 3.5" Chassis with 3 Cabled HDDs (SATA) and 2x2.5" Cabled HDDs (SATA), 300W Cabled Power Supply | Selected  |
| <input type="radio"/> 3.5" Chassis with 3 Cabled HDDs (SAS/SATA) and 2x2.5" Cabled HDDs (SAS/SATA), PERC, 300W Cabled PSU       | + \$0.76  |
| <input type="radio"/> 3.5" Chassis with up to 3 Cabled Hard Drives (SATA), 500W Cabled Power Supply                             | + \$17.90 |

[more](#)(javascript:::)

#### Processor

[Help Me Choose](#)(https://www.dell.com/en-us/lp/hmc-intel-processor-powerededge)

- |  |            |
|--|------------|
| <input type="radio"/> Intel® Xeon® 6 Performance 6315P 2.8G, 4C/4T, 12M Cache, Turbo, (55W) DDR5-4800  | + \$107.05 |
| <input type="radio"/> Intel® Xeon® 6 Performance 6325P 3.5G, 4C/8T, 12M Cache, Turbo, (55W) DDR5-4800  | + \$145.14 |
| <input type="radio"/> Intel® Xeon® 6 Performance 6333P 3.1G, 6C/12T, 18M Cache, Turbo, (65W) DDR5-4800 | + \$221.33 |

Feature	Technical Specifications		
Processor	One Intel® Xeon® 6300 series or one Intel® Xeon® E-2400 series processor with up to 8 cores or One Intel® Pentium® G7400/ G7400T processor with up to 2 cores		
Memory	<ul style="list-style-type: none"> <li>4 DDR5 DIMM slots, supports UDIMM up to 32 GB per DIMM, speeds up to 4400 MT/s</li> <li>Supports unregistered ECC DDR5 DIMMs only</li> </ul>		
Storage controllers	<ul style="list-style-type: none"> <li>Internal: HBA355i Adapter, PERC H355 Adapter, PERC H755 Adapter</li> <li>Internal Boot: Internal USB 3.0, or Boot Optimized Storage Subsystem (BOSS-N1)</li> <li>HWRAID 2 x M.2 SSDs</li> <li>External HBA (non-RAID): HBA355e Adpt</li> <li>Software RAID: S160</li> </ul>		
Drive Bays	Front bays: <ul style="list-style-type: none"> <li>Up to 3 x 3.5-inch cable SAS/SATA HDD/SSD, max 48 TB</li> <li>Up to 3 x 3.5-inch + 2 x 2.5-inch cable SAS/SATA HDD/SSD, max 63.36 TB</li> </ul>		
Power Supplies	<ul style="list-style-type: none"> <li>300 W Bronze 100—240 V AC, cabled</li> <li>500 W Platinum 100—240 V AC, cabled</li> </ul>		
Cooling Options	Air cooling		
Fans	<ul style="list-style-type: none"> <li>One Standard (STD) fan and one optional High performance (HPR) fan</li> <li>Up to two cabled fans</li> </ul>		
Dimensions	<ul style="list-style-type: none"> <li>Height – 332.5 mm (13.09 inches)</li> <li>Width – 132.52 mm (5.21 inches)</li> <li>Depth – 408.8 mm (16.09 inches) (with bezel)</li> </ul>		
Form Factor	3U tower server		
Embedded Management	<ul style="list-style-type: none"> <li>iDRAC9</li> <li>iDRAC Direct</li> <li>iDRAC RESTful API with Redfish</li> <li>iDRAC Service Manual</li> </ul>		
Bezel	Filter bezel		
OpenManage Software	<ul style="list-style-type: none"> <li>OpenManage Enterprise</li> <li>OpenManage Power Manager plugin</li> <li>OpenManage Service plugin</li> <li>OpenManage Update Manager plugin</li> </ul>		
	<ul style="list-style-type: none"> <li>CloudIQ for PowerEdge plugin</li> <li>OpenManage Enterprise Integration for VMware vCenter</li> <li>OpenManage Integration for Microsoft System Center</li> <li>OpenManage Integration with Windows Admin Center</li> </ul>		
Mobility	OpenManage Mobile		
OpenManage Integrations	<ul style="list-style-type: none"> <li>BMC Truesight</li> <li>Microsoft System Center</li> <li>OpenManage Integration with ServiceNow</li> <li>Red Hat Ansible Modules</li> <li>Terraform Providers</li> <li>VMware vCenter and vRealize Operations Manager</li> </ul>		
Security	<ul style="list-style-type: none"> <li>Cryptographically signed firmware</li> <li>Data at Rest Encryption (SEDS with local or external key mgmt)</li> <li>Secure Boot</li> <li>Secured Component Verification (Hardware integrity check)</li> <li>Secure Erase</li> <li>Secured-core server</li> <li>Silicon Root of Trust</li> <li>System Lockdown (requires iDRAC9 Enterprise or Datacenter)</li> <li>TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ</li> </ul>		
Embedded NIC	2 x 1 GbE LOM		
GPU Options	N/A		
Ports	Front Ports <ul style="list-style-type: none"> <li>1 x iDRAC Direct (Micro-AB USB) port</li> <li>1 x USB 3.2 Gen1</li> </ul>	Rear Ports <ul style="list-style-type: none"> <li>3 x USB 2.0</li> <li>3 x USB 3.2 Gen1</li> <li>1 x Dedicated iDRAC Ethernet port</li> <li>1 x Serial</li> <li>1 x VGA</li> <li>2 x Ethernet ports</li> </ul>	
PCIe	Up to two PCIe slots <ul style="list-style-type: none"> <li>Slot 1: 1 x8 slot with x4 bandwidth, Half Height, Half Length</li> <li>Slot 2: 1 x16 slot with x16 bandwidth, Half Height, Half Length</li> </ul>		
Operating System and Hypervisors	<ul style="list-style-type: none"> <li>Canonical Ubuntu Server LTS</li> <li>Microsoft Windows Server with Hyper-V</li> <li>Red Hat Enterprise Linux</li> <li>SUSE Linux Enterprise Server</li> <li>VMware ESXi</li> </ul> <p>For specifications and interoperability details, see <a href="#">Dell.com/OSsupport</a>.</p>		
Sustainability feature	<p>T160 is partially made from recycled steel.</p> <p>T160 exterior metal is made from plated steel without any chemical paint*.</p> <p>NOTE: * Plated steel has a different appearance than regular painted steel.</p>		



## Unique Copilot+ PC features

Copilot+ PC features are designed to enhance everyday tasks with advanced AI capabilities. These features require a Neural Processing Unit (NPU) capable of 40+ trillion operations per second (TOPS) to function as intended.

*Availability may vary by region and device. Storage requirements depend on your device's configuration and the apps or updates installed. Some features may require additional hardware.*

### [Recall \(preview\)](#)

Requires [Windows Hello Enhanced Sign-in Security](#). Optimized for select languages (English, Chinese (Simplified), French, German, Japanese, and Spanish). Content-based and storage limitations apply. Enterprise license required for some [policy-enabled management controls](#).

### [Snipping Tool: Perfect screenshot](#)

Available only on Copilot+ PCs.

### [Voice Access: Flexible commands](#)

Voice Access with flexible commands available now on Copilot+ PCs with Snapdragon® X Series processors. Supports multiple languages; some features only available in English.

### [Windows Studio Effects](#)

Requires built-in camera; Some effects are only available on Snapdragon® X Series devices.



## Windows 11 features

Some [Windows 11 features](#) have increased requirements beyond those listed above in the minimum requirements section. Below are some additional details regarding requirements for key features.

### [5G support](#)

requires 5G capable modem where available.

### [Auto HDR](#)

requires an HDR monitor.

### [BitLocker to Go](#)

requires a USB flash drive (available in Windows Pro and above editions).

### [Client Hyper-V](#)

requires a processor with second level address translation (SLAT) capabilities (available in Windows Pro and above editions).

### [DirectStorage](#)

requires an NVMe SSD to store and run games that use the Standard NVM Express Controller driver and a DirectX12 GPU with Shader Model 6.0 support.

### [DirectX 12 Ultimate](#)

is available with supported games and graphics chips.

### [Microsoft Teams](#)

requires video camera, microphone, and speaker (audio output).



## Windows 11 features

Some [Windows 11 features](#) have increased requirements beyond those listed above in the minimum requirements section. Below are some additional details regarding requirements for key features.

<a href="#">Multiple Voice Assistant (MVA)</a>	requires a microphone and speaker.
<a href="#">Mute/Unmute from Taskbar</a>	requires video camera, microphone, and speaker (audio output). App must be compatible with feature to enable global mute/unmute.
<a href="#">Presence</a>	requires an on-device sensor that can detect human distance from device or intent to interact with device.
<a href="#">Projection</a>	requires a display adapter which supports Windows Display Driver Model (WDDM) 2.0 and a Wi-Fi adapter that supports Wi-Fi Direct.
<a href="#">Snap</a>	three-column layouts requires a screen that is 1920 effective pixels or greater in width.
<a href="#">Spatial Sound</a>	requires supporting hardware and software.
<a href="#">Touch</a>	requires a screen or monitor that supports multi-touch.
<a href="#">Two-factor Authentication</a>	requires use of PIN, biometric (fingerprint reader or illuminated infrared camera), or a phone with Wi-Fi or Bluetooth capabilities.
<a href="#">Voice Typing</a>	requires a PC with a microphone.
<a href="#">Wake on Voice</a>	requires Modern Standby power model and microphone.
<a href="#">Wi-Fi 6E</a>	requires new WLAN IHV hardware and driver and a Wi-Fi 6E capable AP/router.
<a href="#">Windows Hello</a>	requires an on-device camera configured for near infrared (IR) imaging or fingerprint reader for biometric authentication. Devices without biometric sensors can use Windows Hello with a PIN or portable Microsoft compatible security key.
<a href="#">Windows Studio Effects</a>	The automatic framing, background blur (standard and portrait), eye contact: standard, and voice focus features in Windows Studio Effects will run on a Windows 11 device that includes a processor or SoC that incorporates Neural Processing Units (NPUs) with 10+ trillion operations per second (TOPS). Additional Windows Studio Effects are only available on Snapdragon® X Series-powered Copilot+ PCs. Windows Studio Effects require a device with a built-in camera. <a href="#">Learn more about Windows Studio Effects</a> .
<a href="#">Xbox PC app</a>	requires a <a href="#">Microsoft account</a> , which is not available in all regions. See <a href="#">Xbox Live Countries and Regions</a> for the most up-to-date information on availability. Some features in the Xbox app will require an active Xbox Game Pass subscription (sold separately). <a href="#">Learn more about the pass</a> .



Evaluation Center Windows~

All Microsoft~

Windows Server~

# Windows Server 2022

SQL Server~

[Overview](#) ▾

System Center~

Microsoft Security~

## Overview

In addition to your trial experience of Windows Server 2022, you can more easily add and manage languages and Features on Demand with the new Languages and Optional Features ISO. Download this [ISO](#).

This ISO is only available on Windows Server 2022 and combines the previously separate Features on Demand and Language Packs ISOs, and can be used as a [FOD and Language pack repository](#). To learn about Features on Demand, see [Features on Demand](#). To learn about adding languages, see [Add Languages](#).

## Get started for free

Please select your evaluation experience:

[Try Windows Server on Azure](#) > [Create a Virtual Machine in Azure](#) > [Download the ISO](#) > [Download the VHD](#) >

## Description

Windows Server 2022 introduces advanced multi-layer security, hybrid capabilities with Azure, and a flexible application platform. As part of this release, we are bringing secured-core capabilities to help protect hardware, firmware, and Windows Server OS capabilities against advanced security threats. Secured-core server builds on technologies such as Windows Defender System Guard and Virtualization-based Security to minimize risk from firmware vulnerabilities and advanced malware. The new release also provides secured connectivity that introduces several new capabilities such as faster and more secure encrypted HTTPS connections, industry standard SMB AES 256 encryption and more.

Windows Server 2022 improves hybrid server management with significantly improved VM management, an enhanced event viewer, and many more new capabilities in [Windows Admin Center](#). Furthermore, this release includes significant improvements to Windows containers, such as smaller image sizes for faster download, simplified network policy implementation and containerization tools for .NET applications.

For more details, read about [Windows Server 2022](#).

### Ways to try Windows Server:

In addition to downloading the ISO, you can also try the new features through the following ways:

- [Try it in Azure](#): Azure provides a great way to test Windows Server 2022 with pre-built images.

### Choose an edition and an installation option:

Customers who download the full ISO will need to choose an edition and an installation option. This ISO evaluation is for the Datacenter and Standard editions. The Datacenter edition is the most complete edition and includes the new Datacenter-specific features (Shielded Virtual Machines, Storage Spaces Direct, and Software-Defined Networking) in addition to unlimited server virtualization.

### Installation options:

- **Server Core:** This is the recommended installation option. It's a smaller installation that includes the core components of Windows Server and supports all server roles but does not include a local graphical user interface (GUI). It is used for "headless" deployments which are managed remotely through Windows Admin Center, PowerShell, or other server management tools.
- **Server with Desktop Experience:** This is the complete installation and includes a full GUI for customers who prefer this option.

When you complete your evaluation, you can [convert](#) your evaluation versions to retail.

### Languages

- Chinese (Simplified), English, French, German, Italian, Japanese, Russian, Spanish

### Evaluation options:

- Windows Server 2022 on Microsoft Azure
- Windows Server 2022 | 64-bit ISO
- Windows Server 2022 | 64-bit VHD

## Prerequisites

1. Review Windows Server 2022 [release notes](#) and [system requirements](#).
2. Register, then download and install. (Note: This evaluation edition expires in 180 days.)
3. Receive emails with resources to guide you through your evaluation.

## Installation Guidelines

After installation, install the latest servicing package.

- Go to: [Microsoft update catalog](#) and search for "Windows Server 2022".
- Evaluation versions of Windows Server must activate over the internet in the first 10 days to avoid automatic shutdown.

## Resources

- Product Website | [Windows Server solutions across on-premises and cloud](#)
- Microsoft Docs | [Windows Server technical documentation](#)
- Community | [Microsoft Tech Community: Windows Server](#)
- Getting Started Guide | [Get started with Windows Server](#)
- Learning Path | [Windows Server deployment, configuration, and administration](#)
- Datasheet | [Download the Windows Server 2022 solution brief](#)
- How to Buy | [Pricing and licensing for Windows Server](#)

## Supporting products

- [Windows Server](#)
- [Windows Server Essentials](#)
- [Hyper-V Server](#)
- [Windows Admin Center](#)

## Run your Windows Server workloads on Azure

Spend less time running your infrastructure with the cloud that offers native support for Windows Server workloads. Add hybrid capabilities by extending your on-premises Windows Server datacenter to Azure or running your workloads on Azure. Take advantage of cost savings for Windows Server workloads that are only available on Azure.

[Get started with Azure](#)

What's new	Microsoft Store	Education	Business	Developer & IT	Company
Surface Pro	Account profile	Microsoft in education	Microsoft Cloud	Azure	Careers
Surface Laptop	Download Center	Devices for education	Microsoft Security	Microsoft Developer	About Microsoft
Surface Laptop Studio 2	Microsoft Store support	Microsoft Teams for Education	Dynamics 365	Microsoft Learn	Company news
Copilot for organizations	Returns	Microsoft 365 Education	Microsoft 365	Support for AI marketplace apps	Privacy at Microsoft
Copilot for personal use	Order tracking	How to buy for your school	Microsoft Power Platform	Microsoft Tech Community	Investors
AI in Windows	Certified Refurbished	Educator training and development	Microsoft Teams	Microsoft Marketplace	Diversity and inclusion
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## Microsoft Windows Server 2022 User CAL | Client Access Licenses | 5 pack | OEM

[Visit the Microsoft Store](#)

4.4 (27)

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### About this item

- CLIENT ACCESS LICENSES (CALs) are required for every User or Device accessing Windows Server Standard or Windows Server Datacenter
- WINDOWS SERVER 2022 CALs PROVIDE ACCESS to Windows Server 2019 or any previous version.
- A USER CLIENT ACCESS LICENSE (CAL) gives users with multiple devices the right to access services on Windows Server Standard and Datacenter editions.
- GENUINE WINDOWS SERVER SOFTWARE IS BRANDED BY MICROSOFT ONLY.

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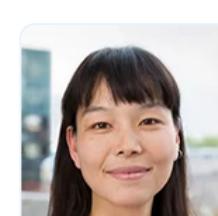
Apps and services to kick-start your business, including:

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- ✓ Custom business email (you@yourbusiness.com)
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- ✓ 1 TB of cloud storage per employee
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- ✓ Automatic spam and malware filtering
- ✓ Anytime phone and web support
- ✓ AI chat experience with web grounding, writing assistance, data analysis, and access to agents<sup>3</sup>
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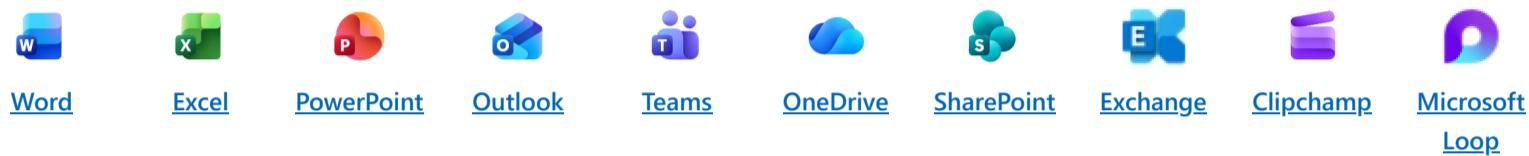
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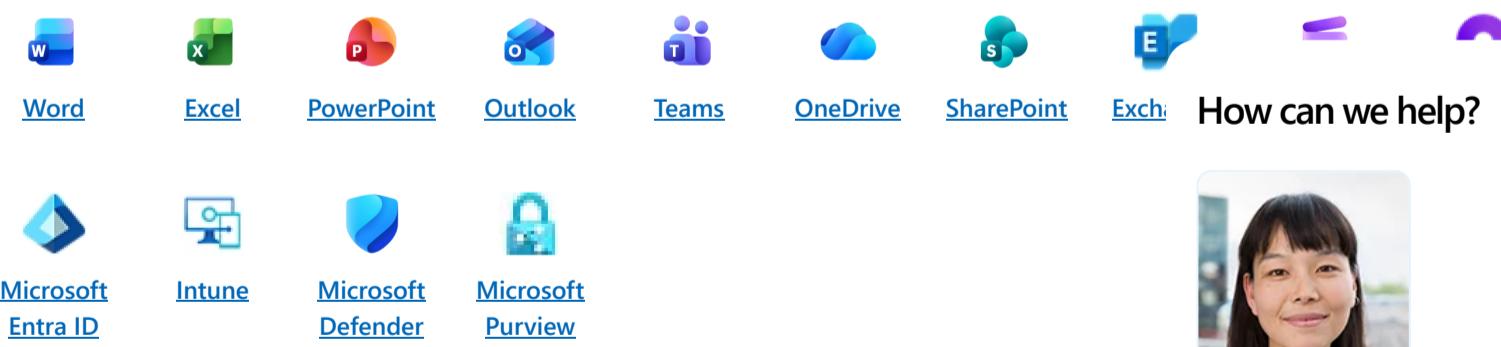
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- ✓ Webinars with attendee registration and reporting
- ✓ Collaborative workspaces to co-create using Microsoft Loop
- ✓ Video editing and design tools with Microsoft Clipchamp
- ✓ Microsoft 365 Copilot, available as an add-on<sup>4</sup>

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**Microsoft 365 Business Premium****\$22.00** user/month, paid yearly(Annual subscription-auto renews)<sup>1</sup>[Buy now](#)[Try free for one month >](#)[See trial terms<sup>2</sup>](#)**Everything in Business Standard, plus:**

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- ✓ Enterprise-grade device and endpoint protection
- ✓ Discover, classify, and protect sensitive information
- ✓ Microsoft 365 Copilot, available as an add-on<sup>4</sup>

Desktop, web, and mobile apps and secure cloud services:



Chat with a human sales specialist or an AI-powered assistant

Chat with a human sales specialist or get your questions answered by our AI-powered assistant.

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# Microsoft 365 suite features

06/02/2025

The features listed in this topic are a collection of web-based tools that help you collaborate and communicate securely across many devices and multiple Office 365 services. These features help make new connections within your organization by unifying digital content creation, storage, and management with social tools for discovering and sharing information between users.

## Microsoft 365 Apps for enterprise

Microsoft 365 Apps for enterprise is the always up-to-date suite of desktop apps you already know (including Word, PowerPoint, Excel, Outlook, and Teams) available as a subscription.

Microsoft 365 Apps for enterprise includes exclusive intelligent capabilities like [Ideas in Excel](#), [real-time collaboration](#), Teams as the hub for teamwork, and advanced security features. As a user-based license, you can deploy Office on up to five PCs or Macs, five tablets, and five mobile devices. With 1 TB of OneDrive cloud storage, you can access and collaborate on your files from anywhere.

For more information, see:

- [Overview page](#)
- [Product page \(to purchase\)](#)

## Microsoft 365 Groups

Groups in Microsoft 365 connects users with the colleagues, information, and applications they need to get more done together. Groups are open by default to enhance discoverability and sharing, but users can also create private groups for sensitive content. To learn more about groups, see [Groups in Microsoft 365](#). For information about group limits, see "How do I manage my groups" in [Learn about Microsoft 365 groups](#).

## Microsoft Forms

Microsoft Forms allows you to quickly and easily create custom quizzes, surveys, questionnaires, registrations, and more. When you create a quiz or form, you can invite others to respond to it using any web browser, even on mobile devices. As results are submitted, you can use built-in

analytics to evaluate responses. Forms data, such as quiz results, can be easily exported to Excel for additional analysis or grading. To learn more, see [What is Microsoft Forms?](#) .

## Delve

Delve lets users search for and discover content across Microsoft 365 based on personalized insights. Delve is the first experience to be powered by Office Graph. To learn more about Delve, go to [What is Delve?](#) .

## Microsoft Graph API

Use the Microsoft Graph API to quickly build apps that connect to a wealth of resources, relationships, and intelligence, all through a single endpoint: <https://graph.microsoft.com>. For example, you can build custom dashboards, workflows, and apps that retrieve data for your organization. For more information, see the [Microsoft Graph documentation](#).

## Microsoft Lists

Microsoft Lists is a Microsoft 365 app that helps you track information and organize work. Lists are simple, smart, and flexible, so you can stay on top of what matters most to your team. Track issues, assets, routines, contacts, inventory, and more using customizable views and smart rules to keep everyone notified and in sync. With ready-made templates, you can quickly start lists online, on our new mobile app, or within Microsoft Teams. As it's part of Microsoft 365, you can rely on enterprise-ready security and compliance.

For more information, see:

- [Public Microsoft Lists resource center](#)
- [Public Microsoft Lists adoption center](#)

## Microsoft Loop

Microsoft Loop is a co-creation app which enables you and your team to bring all the parts of your project together in one place and collaborate across the apps and devices you already use. Loop enables you to organize everything you need for your project in a central workspace. Loop's portable pieces of content (components) synchronize across apps and stay up to date wherever they are shared across Microsoft 365. [Learn more about Microsoft Loop](#) .

## OneNote Class Notebook

Class Notebook is part of OneNote and is available for Office 365 Education and Office 365 E5 Education. Each notebook includes a Content Library for teachers to share course content, a Collaboration Space where teachers and students can work together, and a private notebook for each student. After a Class Notebook is created, teachers and students can use the OneNote app to access it from any device.

## Microsoft Planner

Microsoft Planner is a tool that gives users a visual way to organize teamwork. Teams can create new plans, organize and assign tasks, share files, chat about what they're working on, set due dates, and update status. Microsoft Planner also offers the ability to associate documents with specific tasks, edit them together, and have conversations around tasks. To learn more, see [Introducing Microsoft Planner](#).

## Microsoft Power Apps

Microsoft Power Apps is an enterprise service that helps you quickly build, integrate, and share apps that work on any device. Power Apps lets you use built-in connections or those built by your company to connect your app to cloud and on-premises services, including Microsoft 365 and Office 365, Dynamics CRM, OneDrive, SharePoint, SQL Server, Oracle databases, and more. You can easily share your Power Apps with coworkers by typing an email address. To learn more, go to the Microsoft [Power Apps website](#).

## Microsoft Power Automate

Microsoft Power Automate allows you to automate workflows across applications. You can use Flow to connect email and IM alerts, synchronize files between applications, copy files from one service to another, collect data from one app and store it in another, and more. Templates are available to get you started. To learn more about Flow capabilities and how to use them, go to the [Power Automate website](#).

## Microsoft Search

Microsoft search is available to the following SKUs: Microsoft 365 A3/A5/E3/E5/F1, Microsoft 365 Business, Office 365 A1/A3/A5, Office 365 Business Essentials and Premium, Office 365 E1/E3/E5/F1, Office 365 Education E1/E3, OneDrive for Business (Plan 1 and 2), and SharePoint Online (Plan 1 and 2).

## Microsoft Stream

Microsoft Stream is an enterprise video service that people in your organization can use to upload, view, and share videos securely. You can share recordings of classes, meetings, presentations, training sessions, or other videos that aid your team's collaboration. Microsoft Stream also makes it easy to share comments on a video and tag time codes in comments and descriptions to refer to specific points in a video.

## Microsoft Sway

Microsoft Sway is a professional digital storytelling app for business that helps you and your colleagues express ideas using an interactive, web-based canvas. Microsoft Sway's built-in design engine helps you produce professional, visually appealing reports, presentations, and more without the need for extensive formatting or additional training. You can also modify the results to get the unique look and feel you want. Microsoft Sway makes your creation look great in any browser on any screen, and it can be shared with colleagues and customers by sending a link. Microsoft Sway helps you find and pull together all sorts of content without leaving the app, so you can drag and drop your images, text, videos, and charts right on to your canvas. To learn more, see [Sway](#).

## People Skills

People Skills offers an AI-powered service that delivers personalized skills-based experiences across Microsoft 365 for customers with applicable Viva Suite, Viva Insights, and Viva Learning licenses. Using advanced inferencing, it helps organizations identify skill gaps and promote upskilling. With People Skills, individuals can easily share a current view of their skills and more easily connect with others. People Skills data enriches people-based experiences across Microsoft 365, including the Microsoft 365 profile card and editor, and Microsoft Viva Learning and Viva Insights.

See the [Microsoft 365 Copilot page](#) for information on People Skills service for Microsoft 365 Copilot customers. A non-AI version of this service is also available to other commercial M365

customers (excluding government and faculty\student SKUs).

## To Do

Microsoft To Do is a task management application that allows customers to plan their day and manage their tasks – across work and life – from any device.

With Microsoft To Do, customers can:

- Sync their tasks across Outlook, Teams, Planner, and more
- Stay focused with My Day, a personalized daily planner with suggested tasks
- Get their lists anywhere, on any device or platform
- Share lists and assign tasks with colleagues, friends, and family

To learn more, see: [To Do](#)

## Whiteboard

Microsoft Whiteboard is a freeform, digital canvas where people, content, and ideas come together. You can use Whiteboard for collaborating with your team to accomplish many activities — whether your team is in the same place or in multiple locations. Team members can work collaboratively using their own devices.

For more information about Microsoft Whiteboard, see [Digital Online Whiteboard App - Microsoft Whiteboard](#).

## Windows Update for Business deployment service

The Windows Update for Business deployment service provides control over the approval, scheduling, and protection of content delivered by Windows Update. It's designed to work with your existing Windows Update for Business policies to provide rich control over individual updates. Capabilities provided by the deployment service include:

- Schedule feature update deployments to begin on a specific date
- Stage deployments over a period of days or weeks by using rich expressions
- Bypass pre-configured Windows Update for Business policies to immediately deploy a security update across your organization
- Ensure coverage of hardware and software in your organization through deployments tailored to your unique device population

- Automatically identify and pause deployments to devices, which are likely to be impacted by a [safeguard hold](#)

These capabilities are made available through Microsoft Graph APIs and integration with Microsoft Intune. To learn more, see [Windows Update for Business deployment service Overview](#).

## Feature availability

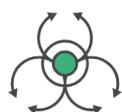
To view feature availability across plans, see [Microsoft 365 and Office 365 platform service description](#).

## Benefits continued



### Patch Policy Enforcement

Keeping endpoints up to date with the latest firmware can be difficult. FortiClient simplifies this task by managing endpoint patching, even when the endpoints are not on the network.



### Malware and Exploit Prevention

By integrating with FortiClient Cloud Sandbox and leveraging FortiGuard global threat intelligence, FortiClient prevents advanced malware and vulnerabilities from being exploited. FortiClient integrates with FortiClient Cloud Sandbox to analyze all files downloaded to FortiClient endpoints in real time. Millions of FortiClient and FortiSandbox users worldwide share information about known and newly discovered malware with the cloud-based FortiGuard threat intelligence platform that eventually turns into usable threat intelligence.



### Ransomware Protection

FortiClient contains behavior-based ransomware protection, with the ability to roll back changes made by malicious programs, putting the endpoint back to a preinfection state.



### Flexible Licensing

FortiClient is available through either the traditional device-based licensing or user-based FortiTrust licensing. Both options offer the same functionality and allow customers to decide how they want to subscribe to the benefits of FortiClient. FortiFlex for MSSPs is also available for MSSPs to enable them to offer FortiClient to their customers on a subscription model.



### VPN

FortiClient provides flexible options for VPN connectivity. The split tunneling feature enables remote users on VPNs to access the Internet without their traffic having to pass through the corporate VPN headend, as in a typical VPN tunnel. This feature reduces latency, which improves user experience. At the same time, FortiClient includes protections to ensure that Internet-based transactions cannot backflow into the VPN connection and jeopardize the corporate network.

In addition to simple remote connectivity, FortiClient simplifies the remote user experience with features such as autoconnect and always-on VPN, as well as dynamic VPN gate selection. You can also use multifactor authentication to provide an additional layer of security. Having VPN and ZTNA with the same agent simplifies and de-risks the transition to ZTNA.



FortiGuard Security Services  
[www.fortiguard.com](http://www.fortiguard.com)



FortiCare Worldwide 24/7 Support  
[support.fortinet.com](http://support.fortinet.com)

# Microsoft Defender Antivirus in Windows Overview

10/20/2025 Applies to: Microsoft Defender for Business, Microsoft Defender Antivirus

Microsoft Defender Antivirus is available in Windows 10 and Windows 11, and in versions of Windows Server.

Microsoft Defender Antivirus is a major component of your next-generation protection in Microsoft Defender for Endpoint. This protection brings together machine learning, big-data analysis, in-depth threat resistance research, and the Microsoft cloud infrastructure to protect devices (or endpoints) in your organization. Microsoft Defender Antivirus is built into Windows, and it works with Microsoft Defender for Endpoint to provide protection on your device and in the cloud.

## 💡 Tip

As a companion to this article, see our [Security Analyzer setup guide](#) to review best practices and learn to fortify defenses, improve compliance, and navigate the cybersecurity landscape with confidence. For a customized experience based on your environment, you can access [the Security Analyzer automated setup guide](#) in the Microsoft 365 admin center.

## Prerequisites

## Supported operating systems

- Windows

## Microsoft Defender Antivirus capabilities

Microsoft Defender Antivirus provides anomaly detection, a layer of protection for malware that doesn't fit any predefined pattern. Anomaly detection monitors for process creation events or files that are downloaded from the internet. Through machine learning and cloud-delivered protection, Microsoft Defender Antivirus can stay one step ahead of attackers. Anomaly detection is on by default and can help block attacks such as [3CX Security Alert for Electron Windows](#)

[App](#) . Microsoft Defender Antivirus started blocking this malware four days before the attack was registered in VirusTotal.

Modern malware requires modern solutions. In 2015, Microsoft Defender Antivirus moved away from using a static signature-based engine to a model that uses predictive technologies such as, machine learning, applied science, and artificial intelligence as this switch is what's necessary to keep you and your organizations safe from the complexity of today's ever-evolving malware landscape.

Microsoft Defender Antivirus can block almost all malware at first sight, in milliseconds.

We designed our antivirus solution to work in both online and offline scenarios. For offline scenarios, the latest dynamic intelligence from the Intelligence Security Graph is provisioned to the endpoint regularly throughout the day. When connected to the cloud, real-time intelligence gets fed from the [Intelligent Security Graph](#) .

Microsoft Defender Antivirus can also stop threats based on their behaviors and process trees even when the threat has started execution. A common example of these kinds of attacks is fileless malware. Microsoft's Next-generation protection features work together to identify and block malware based on abnormal behavior. To learn more, see [Behavioral blocking and containment](#).

## Compatibility with other antivirus products

If you're using a non-Microsoft antivirus/antimalware product on your device, you might be able to run Microsoft Defender Antivirus in passive mode alongside the non-Microsoft antivirus solution. It depends on the operating system used and whether your device is onboarded to Defender for Endpoint. To learn more, see [Microsoft Defender Antivirus compatibility](#).

## Microsoft Defender Antivirus processes and services

The following table summarizes Microsoft Defender Antivirus processes and services. You can view them in Task Manager in Windows.

 Expand table

Process or service	Where to view its status
Microsoft Defender Antivirus Core service (MdCoreSvc)	<ul style="list-style-type: none"> <li>- Processes tab: Antimalware Core Service</li> <li>- Details tab: MpDefenderCoreService.exe</li> <li>- Services tab: Microsoft Defender Core Service</li> </ul>
Microsoft Defender Antivirus service (WinDefend)	<ul style="list-style-type: none"> <li>- Processes tab: Antimalware Service Executable</li> <li>- Details tab: MsMpEng.exe</li> <li>- Services tab: Microsoft Defender Antivirus</li> </ul>
Microsoft Defender Antivirus Network Realtime Inspection service (WdNisSvc)	<ul style="list-style-type: none"> <li>- Processes tab: Microsoft Network Realtime Inspection Service</li> <li>- Details tab: NisSrv.exe</li> <li>- Services tab: Microsoft Defender Antivirus Network Inspection Service</li> </ul>
Microsoft Defender Antivirus command-line utility	<ul style="list-style-type: none"> <li>- Processes tab: N/A</li> <li>- Details tab: MpCmdRun.exe</li> <li>- Services tab: N/A</li> </ul>
Microsoft Security Client Policy Configuration Tool	<ul style="list-style-type: none"> <li>- Processes tab: N/A</li> <li>- Details tab: ConfigSecurityPolicy.exe</li> <li>- Services tab: N/A</li> </ul>

To learn more about the Microsoft Defender Core service, visit [Microsoft Defender Core service overview](#).

For [Microsoft Endpoint Data Loss Prevention](#) (Endpoint DLP), the following table summarizes processes and services. You can view them in Task Manager in Windows.

 [Expand table](#)

Process or service	Where to view its status
Microsoft Endpoint DLP service (MDDlpSvc)	<ul style="list-style-type: none"> <li>- Processes tab: MpDlpService.exe</li> <li>- Details tab: MpDlpService.exe</li> <li>- Services tab: Microsoft Data Loss Prevention Service</li> </ul>
Microsoft Endpoint DLP command-line utility	<ul style="list-style-type: none"> <li>- Processes tab: N/A</li> <li>- Details tab: MpDlpCmd.exe</li> <li>- Services tab: N/A</li> </ul>

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