



Lenovo recommends  
Windows 10 Pro for Business.

ThinkShield

# Flexible security to protect the future of learning.

Choose from the latest Lenovo devices  
with the built-for-business Intel vPro®  
platform and Microsoft Windows 10 —  
and focus on teaching and learning  
priorities instead of IT management.

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# Education cybersecurity has taken the spotlight.

24%

Ransomware attacks were up 24% for K-12 education in 2020.<sup>1</sup>

54%

of education IT administrators know employees are using **unknown or unapproved cloud apps**.<sup>2</sup>

\$2M

The median amount of **money stolen** from school staff and vendors in spear-phishing attacks is \$2 million per incident.<sup>3</sup>

1 in 5

districts has adopted or plans to adopt **virtual learning** after the pandemic.<sup>4</sup>

4.8M

education devices **encountered malware** over a 30-day period.<sup>5</sup>

90%

of cyberattacks start with **phishing**.<sup>3</sup>

3x

**Attacks on IoT devices** tripled in the first half of 2019.<sup>6</sup>



The ThinkPad® L13 designed on the Intel vPro® platform delivers business-class performance for the classroom.



 Windows 10

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# ThinkShield is ready.

The ThinkShield security portfolio — powered by the Intel vPro® platform — safeguards the entire lifecycle of a device, layering protections for holistic and comprehensive security coverage. It is built on a set of **core beliefs** about how best to serve the evolving security needs of your students and staff.



### Strong security fundamentals allow IT to drive growth.

When IT spends less time on updates and password resets, they can serve a more critical role as drivers of innovation and growth.



### Security that interferes with learning is unacceptable.

If device security slows down your teachers or students, they'll find ways to circumvent it. The best solutions stay out of their way.



### Innovation must not outpace security.

Every technological advancement opens an organization up to new threats — and the hackers are ready to exploit them. Security solutions must be able to adapt.



### Comprehensive solutions reduce costs and pay returns.

Technical debt accumulates when you attempt to solve one security issue at a time with solutions that weren't designed to work together. Customizable, end-to-end solutions reduce sunk costs and create new cost efficiencies.



ThinkPad P14s i  
Mobile Workstation



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## What is ThinkShield?

A comprehensive portfolio of end-to-end security tools that encompasses hardware, software, services, and processes.

### Advanced solutions across four categories

#### ThinkShield Built-in Platform Security\*

- Intel vPro® platform
- Microsoft Secured-core PC-ready
- Secure wipe
- Self-healing BIOS
- Tamper switch
- Security Engine
- Webcam privacy shutter
- Windows 10 Hello and FIDO2

\*Security features for devices built on the Intel vPro® platform.

#### ThinkShield Device Protection

- Fingerprint reader with match-on-chip
- IR camera
- Keep Your Drive service
- PrivacyGuard with PrivacyAlert (shoulder surfing protection)

#### ThinkShield Threat and Data Protection

- Full-disk encryption and management
- SentinelOne® AI-powered antivirus

#### ThinkShield Security Management

- Absolute® software-based MDM
- IoT endpoint protection
- MobileIron mobile-centric, zero-trust security
- Lenovo Device as a Service
- Lenovo Commercial Vantage device management portal

76%

of security pros are focused on detection, but **protection can save organizations up to \$1.4M per attack.**<sup>7</sup>

38%

Only 38% of global organizations **believe they are prepared** for a sophisticated cyberattack.<sup>8</sup>

### Security by Design

Security begins in R&D and extends through our supply chain and the lifecycle of every device we build.

### Secure Supply Chain

Every step of the manufacturing process is controlled, audited, and tamper-proof from our facility to your employees' desks.



ThinkPad L13 Yoga



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# Can your devices defend and repair themselves?

Advanced hardware security and BIOS protection hardens endpoints from attack and restores devices to a known good state.

Firmware vulnerabilities have grown

# 750%

since 2016.<sup>9</sup>

Gartner predicts that

# 70%

of organizations without a firmware upgrade plan **will experience a firmware breach** by 2022.<sup>10</sup>

### Intel® Hardware Shield

Part of the built-for-business Intel vPro® platform, Intel® Hardware Shield puts extra locks on the Lenovo BIOS so a bogus firmware update can't take hold of your device.

### Infrared camera

Integrated IR cameras enable biometric authentication and presence detection, which alert users to shoulder surfers and lock the device when the user is away.

### PrivacyGuard

Filters the screen to restrict the field of view.

### Secured-core PC

Guards against attacks aimed below the operating system, keeping malicious code out of the BIOS. Deep security integration between hardware, firmware, and the Windows 10 Pro OS builds a bedrock of security at the heart of the device.

### The root of trust

Secured-core PCs boot up against a security checklist known as the "root of trust." If processes and movements deviate from the norm, boot-up is aborted.

### Secured-core PC Enablement Services

The Lenovo team can configure a Secured-core PC at the factory, ensuring your entire fleet is enabled consistently and accurately.



ThinkPad E15

### Port protection

Smart Thunderbolt™/USB protection prevents unauthorized data transfer by restricting port access to only non-storage peripherals.

### Security Engine

A custom chip embedded within Lenovo Think devices that performs security functions that are completely isolated from the software.

### USB secure hard drive

High-level, 256-bit AES security, as well as a keypad for entering an 8- to 16-digit password.

### Webcam privacy shutter

Integrated physical webcam cover assures that the camera is not in use.



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# Defending your data against tomorrow's threats.

Almost every component in a PC is susceptible to attack. The Lenovo ThinkShield portfolio is watching all of them. You can't be with students and staff every minute... but ThinkShield can.

## Data encryption

Whether data lives on a device hard drive or in the cloud, ThinkShield protections — including WinMagic — can encrypt it from end to end so sensitive data can be safely shared.

## Absolute® endpoint visibility and control

An MDM embedded directly into Lenovo device firmware, Absolute is an endpoint visibility and control solution that provides persistent security management. It automates endpoint hygiene to support self-healing capabilities. Its real-time remediation control allows remote investigation of potential threats and prompts action if a security incident occurs.

## Next-generation antivirus protection

Cloud-based and autonomous, SentinelOne® uses AI and ActiveEDR to predict, prevent, and stop even zero-day attacks, alerting the network and rolling your devices back to a clean, known good (pre-breach) state.

## Secure disposal

Your data is protected even when your device reaches end of life. You can elect to keep your hard drive,<sup>11</sup> or we can securely wipe the data and dispose of the device in an environmentally sensitive manner.

ThinkPad T14s i designed on Intel® Evo™ vPro® platform



# 38%

of employees are not confident they know how to stay secure while working remotely.<sup>12</sup>

# 46%

of websites have high-security vulnerabilities that an end user could never know about.<sup>13</sup>



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# Supporting your classroom data security.

Education today is constantly in motion, and security measures need to keep up. That's why Lenovo offers a range of software and service solutions in addition to the built-in enhanced security features of the Intel vPro® platform to help keep hybrid classrooms and education data secure.

79%

of organizations currently use **security automation tools** or plan to use them within the next 3 years.<sup>14</sup>



### Lightspeed Filter™

Monitor and control activity to maintain e-safety compliance — even for BYOD devices — with advanced AI that blocks inappropriate sites and content.



### Lightspeed MDM™

Control school-issued devices remotely, set policies including access restrictions, and maintain data privacy. Manage and report on all apps and devices, and easily locate and recover lost/stolen devices.



### Lightspeed Analytics™

Analyze adoption, optimize utilization, and eliminate redundancy. Lightspeed Analytics also helps you inform ROI, track licenses, and identify redundant and underutilized apps.



### Keep Your Drive

Dispose of data on your terms, improving data security and ensuring compliance with data privacy and retention requirements.



### Cloud recovery

With your custom image stored in the cloud, hard drive or software failure can be easily recovered by authorized users anywhere, without assistance from IT.



### Lenovo Online Data Backup

If a user needs to retrieve their data, Lenovo provides a simple, automatic, and secure cloud backup and recovery service that protects students and staff from data loss.



### Lenovo Asset Recovery Service

Mitigate the environmental and data security risks associated with end-of-life asset disposal. ARS offers a flexible, single-source solution for the secure, documented disposition of IT assets and data.



ThinkPad E14



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# Lenovo DaaS A refreshingly simple approach to device management.

## Discover the smarter simplicity of Device as a Service

Take the next step to seamlessly enable learning and let Lenovo take care of everything — all for one affordable, predictable monthly fee.

Choose from the latest Lenovo devices with the built-for-business Intel vPro® platform and Microsoft Windows 10 — and focus on district priorities instead of IT management.



**Free up capital** and improve IT employee productivity.



**Get end-to-end services and support** that precisely match your needs.



**Enjoy the simplicity** of one predictable monthly fee.



**Easily add or remove devices** from your plan. Pause your service as your needs change.



ThinkVision® T24t



ThinkPad L13 Yoga

# 63%

of respondents in a recent global survey indicated they were interested in a DaaS solution.<sup>15</sup>



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# Protect education wherever it takes place.

## IT leaders do more than protect data. You enable learning.

Education today requires an environment that supports safe, accessible collaboration among students and teachers in a hybrid environment. ThinkShield helps you deliver that experience everywhere.

## IT security isn't a cost — it's an investment that drives returns.

With ThinkShield solutions in place, IT will spend less time setting up, monitoring, and securing devices, and more time implementing next-generation technology.

## Security solutions keep IT teams agile and ahead of the game.

You don't have to play catch-up. ThinkShield solutions prepare you for tomorrow's threats with PCs that can defend themselves.

# #1

Cybersecurity is the #1 priority for education IT leaders.<sup>3</sup>



ThinkPad L15



# Evolve and thrive with ThinkShield security

ThinkShield is Lenovo's security portfolio of hardware, software, services, and processes — fully customizable solutions to secure your learning environment. Lenovo recommends Windows 10 Pro powered by the Intel vPro® platform.

Visit [www.lenovo.com/Education](http://www.lenovo.com/Education). We're experts at breaking down barriers and building smart solutions. When you're ready, we're here to help.



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Sources

1 Douglas A. Levin, "The State of K-12 Cybersecurity: 2020 Year in Review." EdTech Strategies/K-12 Cybersecurity Resource Center and the K12 Security Information Exchange, 2021

2 <https://www.cshub.com/attacks/articles/incident-of-the-week-educational-infrastructures-at-risk-of-invasive-breaches>

3 <https://edtechmagazine.com/k12/article/2020/06/cyberattacks-increasingly-threaten-schools-heres-what-know-perfcon>

4 [https://www.rand.org/pubs/research\\_reports/RRA956-1.html](https://www.rand.org/pubs/research_reports/RRA956-1.html)

5 <https://www.microsoft.com/en-us/wdsi/threats>

6 <https://www.csoonline.com/article/3153707/topcybersecurity-facts-figures-and-statistics.html>

7 The Ponemon Institute, "The Economic Value of Prevention in the Cybersecurity Lifecycle" study, 2020

8 IBM, "2019 Cost of a Data Breach" study

9 <https://eclipsium.com/2020/01/20/assessing-enterprise-firmware-security-risk>

10 <https://www.gartner.com/en/documents/3947141/how-to-mitigate-firmware-security-risks-in-data-centers>

11 Lenovo Keep Your Drive service available at additional cost.

12 Media Pro, "2020 State of Privacy and Security Awareness" report

13 Acunetix, "Web Application Vulnerability Report," 2019

14 The Ponemon Institute, "Staffing the IT Security Function in the Age of Automation," 2019

15 Lenovo, "The Future of Work and Digital Transformation," February 2021



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