



Lenovo recommends  
Windows 10 Pro for Business.

**ThinkShield**

# Flexible security to protect the workforce of the future.

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

Smarter  
technology  
for all

Lenovo

ThinkShield

## Cybersecurity is having a **moment.**

**25%**

Security personnel waste 25% of their time **chasing false alerts.**<sup>1</sup>

**4x**

Nearly 4x more employees are now **working remotely** around the world.<sup>3</sup>

**20%**

Remote workers have **caused data breaches** in 20% of organizations.<sup>5</sup>

**74%**

of companies plan to permanently shift to **more remote work** post-pandemic.<sup>2</sup>

**\$3.9M**

The global average **cost of a data breach** is \$3.9M.<sup>4</sup>

**17M**

On average, employees have **access to more than 17 million** company files.<sup>3</sup>

**3x**

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

**68%**

of business leaders feel their **cybersecurity risks** are increasing.<sup>7</sup>



ThinkPad® X1 Carbon designed on Intel® Evo™ vPro® platform



Windows 10

Lenovo recommends Windows 10 Pro for Business.

Smarter technology for all

Lenovo

ThinkShield

# 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 business teams.



ThinkPad P14s i  
Mobile Workstation



### **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 productivity is unacceptable.**

If device security slows down your employees, 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.



# Windows 10

Lenovo recommends  
Windows 10 Pro for Business.

Smarter  
technology  
for all

Lenovo



ThinkShield

# 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 endpoint management
- 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 businesses up to \$1.4M per attack.**<sup>8</sup>

38%

Only 38% of global organizations **believe they are prepared** for a sophisticated cyberattack.<sup>9</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 X13 i



# Windows 10

Lenovo recommends Windows 10 Pro for Business.

Smarter technology for all

Lenovo



# 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.

## 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 X1 Yoga



Firmware vulnerabilities have grown

# 750%

since 2016.<sup>10</sup>

Gartner predicts that

# 70%

of enterprises without a firmware upgrade plan will experience a firmware breach by 2022.<sup>11</sup>

## 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.



# Windows 10

Lenovo recommends Windows 10 Pro for Business.

Smarter technology for all

Lenovo



# 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 employees 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.

## Frictionless authentication

Eight modes of secure authentication — including biometrics, PIN, and picture passwords with Windows 10 Hello — take the peril out of passwords and credentials.

Lenovo's match-on-chip and match-on-network fingerprint readers are the most secure in the industry.

## 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>12</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>13</sup>

# 46%

of websites have high-security vulnerabilities that an end user could never know about.<sup>14</sup>



Lenovo recommends Windows 10 Pro for Business.

Smarter technology for all



ThinkShield

# Is it really a solution if you're working harder?

ThinkShield gives IT teams a custom-fitted solution to protect and manage the entire fleet — even remotely.



# 79%

of organizations currently use **security automation tools** or plan to use them within the next 3 years.<sup>15</sup>



### Flexible patching

Lenovo Patch makes it easy to quickly patch vulnerabilities and keep devices up to date. Critical patches can be instantly delivered organization-wide.



### Lenovo Thin Installer

Install updates behind the scenes automatically without involving the end user. Lenovo Thin Installer also directly injects a patch into the OS without adding code.



### Absolute® Persistence endpoint management

The Absolute® software dashboard delivers visibility and access to every device in your network, no matter where it's operating.



### Self-healing BIOS

The Lenovo BIOS automatically restores endpoint devices to a clean, pre-breach known good state in the event of an attack.



### Windows Autopilot

Simplify deployment with zero-touch device provisioning for IT.



### Lenovo Commercial Vantage

Give your users a central portal that you configure — to manage hardware settings, set preferences, and check system updates.



### Device as a Service

Deploy devices with security that is always up to date.

# \$1.55M

Incident response automation can **reduce the total cost** of a data breach by \$1.55M.<sup>16</sup>



ThinkVision® P40w



ThinkCentre® M90q Tiny designed on Intel vPro® platform



# Windows 10

Lenovo recommends Windows 10 Pro for Business.

Smarter technology for all

Lenovo



# 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 your workforce 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 business priorities instead of IT management.



**Free up capital** and improve 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 business needs change.

# 63%

of respondents in a recent global survey indicated they were interested in a DaaS solution.<sup>17</sup>



ThinkCentre M90a  
All-in-One



ThinkPad X1 Extreme



Lenovo recommends  
Windows 10 Pro for Business.

Smarter  
technology  
for all

Lenovo

ThinkShield

# A battle on infinite fronts: Securing the IoT

The next step in the ongoing digitization of industry is the Internet of Things (IoT): bringing connectivity and intelligence to a new class of devices. Sensors, robotics, autonomous vehicles, medical equipment — connected objects are transforming businesses. But many of these devices were not designed with security in mind.

With the Lenovo ThinkEdge SE30, businesses have a simple edge computing option for securing and centralizing the management of connected devices.

**5 minutes**  
The **amount of time** it takes for an IoT device to be attacked by bots once connected.<sup>18</sup>



**Absolute®**  
If critical applications go offline or malfunction, Absolute Persistence® technology can automatically get them back online.



**Encryption**  
In addition to a TPM chip, encryption services like Windows BitLocker and WinMagic can protect data from prying eyes.



**MobileIron**  
Provides a console through which IoT devices, data, security, and policies can be managed.



**Virtualization-based security**  
Isolates IoT device activity from other critical processes, preventing malware from entering the network.

## ThinkEdge SE30

A secure gateway for protecting IoT devices against attack. All devices connected to the ThinkEdge SE30 benefit from ThinkShield protections.



ThinkEdge SE30 designed on Intel vPro® platform



ThinkVision T27hv



 Windows 10

Lenovo recommends  
Windows 10 Pro for Business.

Smarter  
technology  
for all

Lenovo

ThinkShield

## Free up your time to **innovate.**

**IT leaders do more than protect data. You accelerate progress.**

IT security gives organizations a competitive edge. The ThinkShield security portfolio speeds technological progress without impeding the employee experience.

**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 breakthrough 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.

**53%**

of executives are **"extremely concerned"** about the effects of cyberthreats on growth prospects.<sup>19</sup>

**86%**

of businesses that believe in security's ability to open new business opportunities **saw 10%+ revenue growth** year over year.<sup>20</sup>



## Evolve and thrive with ThinkShield security

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

Visit [www.lenovo.com/FlexibleWorkforce](http://www.lenovo.com/FlexibleWorkforce) and connect with a security specialist. We can help customize the right solution for your business.



ThinkPad X1 Fold



 **Windows 10**

Lenovo recommends Windows 10 Pro for Business.

**Smarter technology for all**

**Lenovo**

#### Sources

- 1 <https://www.businesswire.com/news/home/20190801005087/en/Ponemon-Institute-Reveals-Security-Teams-Spend-Approximately>
- 2 <https://www.gartner.com/en/documents/3982949/covid-19-bulletin-executive-pulse-3-april-2020>
- 3 "What's next for remote work: An analysis of 2,000 tasks, 800 jobs, and nine countries," McKinsey Global Institute, November 2020. Accessed at: <https://www.mckinsey.com/featured-insights/future-of-work/whats-next-for-remote-work-an-analysis-of-2000-tasks-800-jobs-and-nine-countries>
- 4 <https://databreachcalculator.mybluemix.net>
- 5 "Enduring from home: COVID-19's impact on business security," Malwarebytes. Accessed February 2021 at [https://resources.malwarebytes.com/files/2020/08/Malwarebytes\\_EnduringFromHome\\_Report\\_FINAL.pdf](https://resources.malwarebytes.com/files/2020/08/Malwarebytes_EnduringFromHome_Report_FINAL.pdf)
- 6 <https://www.csoonline.com/article/3153707/top-cybersecurity-facts-figures-and-statistics.html>
- 7 <https://www.cyber-observer.com/cyber-news-29-statistics-for-2020-cyber-observer>
- 8 The Ponemon Institute, "The Economic Value of Prevention in the Cybersecurity Lifecycle" study, <https://securityboulevard.com/2020/05/the-definitive-cyber-security-statistics-guide-for-2020>
- 9 IBM, "2019 Cost of a Data Breach" study, <https://phoenixnap.com/blog/data-breach-statistics>
- 10 <https://eclipsium.com/2020/01/20/assessing-enterprise-firmware-security-risk>
- 11 <https://www.gartner.com/en/documents/3947141/how-to-mitigate-firmware-security-risks-in-data-centers>
- 12 Lenovo Keep Your Drive service available at additional cost.
- 13 Media Pro, "2020 State of Privacy and Security Awareness" report, <https://www.mediapro.com/report-2020-state-of-privacy-security-awareness/>
- 14 Acunetix, "Web Application Vulnerability Report," [https://cdn2.hubspot.net/hubfs/4595665/Acunetix\\_web\\_application\\_vulnerability\\_report\\_2019.pdf](https://cdn2.hubspot.net/hubfs/4595665/Acunetix_web_application_vulnerability_report_2019.pdf)
- 15 The Ponemon Institute, "Staffing the IT Security Function in the Age of Automation," 2019 Ponemon Survey Report, <https://www.thesslstore.com/blog/the-top-cyber-security-trends-in-2019-and-what-to-expect-in-2020>
- 16 <https://securityintelligence.com/close-the-gap-on-advanced-threats-with-integrated-security/>
- 17 Lenovo, "The Future of Work and Digital Transformation," February 2021
- 18 NetScout, "Dawn of the Terrorbit Era," [https://www.netscout.com/sites/default/files/2019-02/SEC\\_001\\_EN-1901%20-%20NETSCOUT%20Threat%20Intelligence%20Report%20H%202018.pdf](https://www.netscout.com/sites/default/files/2019-02/SEC_001_EN-1901%20-%20NETSCOUT%20Threat%20Intelligence%20Report%20H%202018.pdf)
- 19 PwC 23rd CEO Survey, <https://www.pwc.com/us/en/library/ceo-agenda/ceo-survey.html>
- 20 Vodafone, Cyber Security Research: The Innovation Accelerator <https://www.vodafone.com/business/white-paper/cyber-security-research-the-innovation-accelerator>



# Windows 10

Lenovo recommends  
Windows 10 Pro for Business.

Smarter  
technology  
for all

Lenovo