# AMD RYZEN PRO

# LENOVO THINKPAD T14 GEN 4
## POWERED BY THE LATEST AMD RYZEN™ PRO 7040 SERIES PROCESSORS

## BOOST YOUR BUSINESS PERFORMANCE.

Experience over 30 years of innovation and reliability with the Lenovo ThinkPad T14 Gen 4. Powered by all new AMD Ryzen™ PRO 7040 Series processors, these dependable business notebooks are designed to exceed your expectations with increased productivity and enhanced remote collaboration capabilities. Elevate your business to new heights with epic battery life, lightning-fast file-loading, quick bootups, and amazingly powerful graphics.  All that in combination with offering incredibly modern security features, the Lenovo ThinkPad T14 Gen 4 offers unparalleled performance and helps protect against today's most sophisticated attacks.

## AMD RYZEN™ 7 PRO 7840U PROCESSOR VS INTEL 13TH GEN

Lenovo ThinkPad T14 Gen 4
AMD Ryzen™ 7 PRO 7840U

**VS**

INTEL

Intel 12th and 13th Gen
Various Systems

Up to
### 58%
**BETTER MULTITASKING THAN COMPETITION**

When compared to the Intel core i7-1365U running the Cinebench R23 nT benchmark

Up to
### 74%
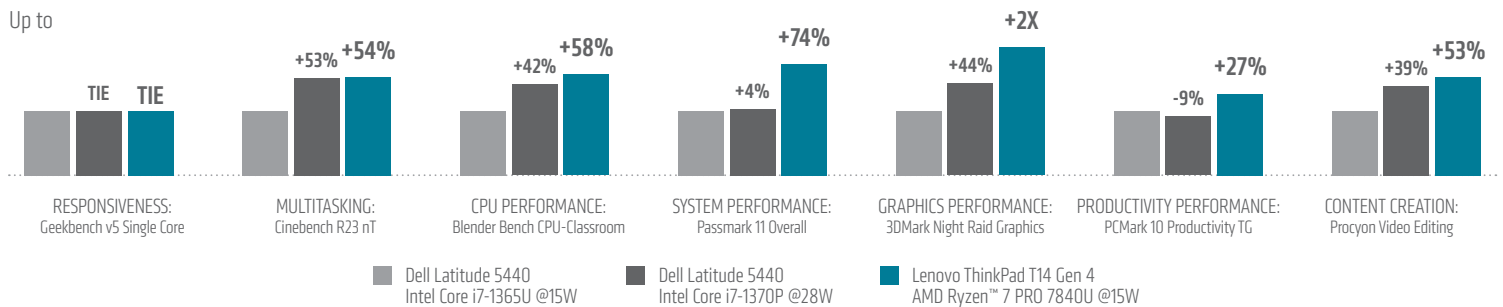**BETTER SYSTEM PERFORMANCE THAN COMPETITION**

When compared to the Intel core i7-1365U running the Passmark 11 Overall benchmark

Up to
### 2X
**BETTER GRAPHICS PERFORMANCE THAN COMPETITION**

When compared to the Intel core i7-1365U running the 3DMark Night Raid Graphics benchmark

See endnote: PHXP-41

## AMD RYZEN™ PRO 7040U SERIES DELIVERS LEADING PERFORMANCE VS INTEL 13TH GEN

Up to

| | RESPONSIVENESS: Geekbench v5 Single Core | MULTITASKING: Cinebench R23 nT | CPU PERFORMANCE: Blender Bench CPU-Classroom | SYSTEM PERFORMANCE: Passmark 11 Overall | GRAPHICS PERFORMANCE: 3DMark Night Raid Graphics | PRODUCTIVITY PERFORMANCE: PCMark 10 Productivity TG | CONTENT CREATION: Procyon Video Editing |
|---|---|---|---|---|---|---|---|
| Dell Latitude 5440 Intel Core i7-1365U @15W | | +53% | +42% | +4% | +44% | -9% | +39% |
| Dell Latitude 5440 Intel Core i7-1370P @28W | TIE | | | | | | |
| Lenovo ThinkPad T14 Gen 4 AMD Ryzen™ 7 PRO 7840U @15W | TIE | +54% | +58% | +74% | +2X | +27% | +53% |

See endnote: PHXP-41, PHXP-42

## AMD RYZEN™ PRO 7040U SERIES DELIVERS LEADERSHIP BATTERY LIFE FOR PROFESSIONALS

Up to
### 17%
**LONGER BATTERY LIFE FOR MICROSOFT TEAMS CONFERENCING**

When compared to the Dell Latitude 5440 with Intel core i7-1370P

Up to
### 9%
**LONGER BATTERY LIFE FOR MICROSOFT TEAMS CONFERENCING**

When compared to the Dell Latitude 5440 with Intel core i7-1365U
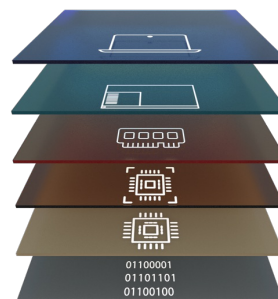
See endnote: PHXP-53

AMD
together we advance_

## AMD PRO TECHNOLOGIES

A complete set of features that are essential to modern business. SMBs, enterprise businesses, IT admins, and general office workers can take advantage of cutting-edge security features, robust manageability tools, and enterprise-grade stability and reliability as part of AMD PRO technologies.

### AMD PRO SECURITY:
Provides innovative layers of defense at the silicon, OS, and platform levels to give IT teams comprehensive security features for the entire system

### AMD PRO BUSINESS READY:
Provides a robust manageability feature set that simplifies deployment, imaging, and management of an ever-growing and changing fleet.

- **OEM SECURITY FEATURES**
  Lenovo ThinkShield
- **WINDOWS® 11 SECURITY**
  Secured-Core PC
  Hardware Enforced Stack Protection
- **AMD MEMORY GUARD**
- **MICROSOFT PLUTON SECURITY**
  AMD Secure Processor
  FIPS 140-3 Level 1 and Level 2* Certification
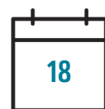- **AMD "ZEN 4" ARCHITECTURE**
  AMD Shadow Stack
- **YOUR DATA**

01100001
01101101
01100100

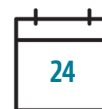See endnote: GD-206, GD-202, GD-72

\* FIPS 140-3 implementation under test

### AMD SECURE PROCESSOR:
Dedicated security processor that validates code before it is executed to help ensure data and application integrity

**18 MONTHS**
planned software stability

**24 MONTHS**
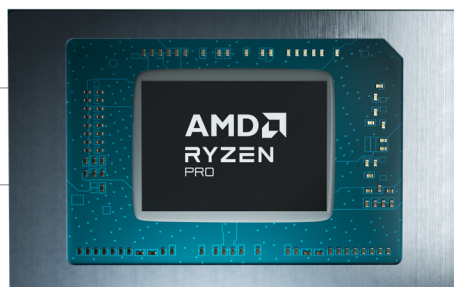planned availability

**ENTERPRISE GRADE**
quality assurance stability

## DESIGNED FOR PROFESSIONALS

"Zen 4" architecture delivers high frequencies, high instructions per clock, and lower latency

An incredible high-performance 8-core x86 CPU for ultrathin business notebooks

Brand new 4nm process technology delivers leadership performance and battery life

AMD PRO technologies:
✓ AMD PRO security
✓ AMD PRO manageability
✓ AMD PRO business ready

| Model | Processor | Graphics | Display | Lenovo ThinkShield | Operating System | Battery Life | Connectivity | Dimensions/Weight |
|---|---|---|---|---|---|---|---|---|
| Lenovo ThinkPad T14 Gen 4 | **AMD Ryzen™ PRO 7040 Series Processors:** AMD Ryzen™ 7 PRO 7840U AMD Ryzen™ 5 PRO 7540U | Integrated AMD Radeon™ Graphics | 14" 2.8K (2880x1800), OLED, anti-glare, 400 nits, 100% DCI-P3, HDR True Black 400, Dolby Vision | ✓ | Windows 11 Pro | Battery life up to 14.5 hours[4] | 1 USB4 40Gbps (support data transfer, Power Delivery 3.0, DisplayPort™ 1.4a) 1 HDMI 2.1; 2 USB 3.2 Gen 1, 1 USB-C 3.2 Gen 2, 1 RJ45 | 317.7 x 226.9 x 17.9 mm (12.51 x 8.93 x 0.70 inches) Starting at 1.34 kg (2.97 lbs.) |

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1. Testing as of 7/13/23 by BOXX Technologies, commissioned by AMD, utilizing Dell Latitude 5440 with Intel Core i7 1365U processor, Intel Integrated graphics, 16GB RAM, 512GB NVMe SSD and Windows 11 Pro, Dell Latitude 5440 with Intel Core i7 1370P processor, Intel Integrated graphics, 16GB RAM, 1TB NVMe SSD and Windows 11 Pro, and Lenovo ThinkPad T14 Gen 4 with Ryzen 7 PRO 7840U processor, Integrated Radeon Graphics, 16GB RAM, 1TB NVMe SSD, Windows 11 Pro. Using the following tests: Geekbench V5 Single core, Cinebench R23 n-thread, Blender bench CPU-Classroom, Passmark 11 Overall, and 3DMark Night Raid. PC manufacturers may vary configurations yielding different results. Results may vary. **PHXP-41**
2. Testing as of 7/13/23 by BOXX Technologies, commissioned by AMD, utilizing Dell Latitude 5440 with Intel Core i7 1365U processor, Intel Integrated graphics, 16GB RAM, 512GB NVMe SSD and Windows 11 Pro, Dell Latitude 5440 with Intel Core i7 1370P processor, Intel Integrated graphics, 16GB RAM, 1TB NVMe SSD and Windows 11 Pro, and Lenovo ThinkPad T14 Gen 4 with Ryzen 7 PRO 7840U processor, Integrated Radeon Graphics, 16GB RAM, 1TB NVMe SSD, Windows 11 Pro. Using the following tests: PCMark 10 Productivity Test Group, PCM10 Apps Word, PCM10 Apps Excel, PCMark 10 Photo Editing and Procyon Video Editing Benchmarks. PC manufacturers may vary configurations yielding different results. Results may vary. **PHXP-42**
3. Based on internal testing by AMD as of 10/4/23. Battery life results evaluated by operation of a nine-participant Microsoft Teams video conference on battery. System configuration for AMD/Intel systems run from power level 100% > 5% @150nits brightness and power mode set to "power efficiency." System configuration for Ryzen™ 7 7840U: Lenovo ThinkPad T14 Gen 4, AMD Radeon Graphics, 16GB RAM, 1TB NVMe SSD, Windows 11 Pro and 52Wh battery. System config for Intel core i7 1370P, Dell Latitude 5440, 16GB RAM and 1TB NVMe SSD, Intel integrated Graphics, Windows 11 Pro and 54 Wh battery. System config for Intel core i7 1365U, Dell Latitude 5440, 16GB RAM and 512GB NVMe SSD, Intel integrated Graphics, Windows 11 Pro and 54Wh battery. **PHXP-53**
4. Battery life testing by Lenovo. All battery life claims are approximate. Battery life based on MobileMark 25 testing results using a Lenovo ThinkPad T14 Gen 4 with AMD Ryzen 7 PRO 7840U processor with WUXGA Low Power display (non-touch) and 52.5Wh battery set to best power efficiency mode @250nits brightness. Actual battery life will vary based on several factors, including, but not limited to: product configuration and usage, software, operating conditions, wireless functionality, power management settings, screen brightness and other factors. The maximum capacity of the battery will naturally decrease with time and use. AMD has not independently tested or verified the battery life claim. For more information see https://psref.lenovo.com/Product/ThinkPad/ThinkPad_T14_Gen_4 - **PHXP-43**
5. Full system memory encryption with AMD Memory Guard is included in AMD Ryzen PRO, AMD Ryzen Threadripper PRO, and AMD Athlon PRO processors. Requires OEM enablement. Check with the system manufacturer prior to purchase. **GD-206**
6. Microsoft Pluton is a technology owned by Microsoft and licensed to AMD. Microsoft Pluton is a registered trademark of Microsoft Corporation in the United States and/or other countries. Learn more at https://www.microsoft.com/security/blog/2020/11/17/meet-the-microsoft-pluton-processor-the-security-chip-designed-for-the-future-of-windows-pcs/. Microsoft Pluton security processor requires OEM enablement. Check with the OEM before purchase. AMD has not verified the third-party claim. **GD-202**
7. The AMD Secure Processor is a dedicated on-chip security processor integrated within each system-on-a-chip (SoC) and ASIC (Application Specific Integrated Circuit) designed by AMD. It enables secure boot with root of trust anchored in hardware, initializes the SoC through a secure boot flow, and establishes an isolated Trusted Execution Environment. **GD-72**