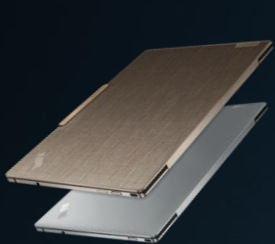# AMD

AMD FOR BUSINESS

AMD RYZEN™ PRO 7000 SERIES PROCESSORS

LAPTOPS

WORKSTATIONS

DESKTOPS

BUSINESSES ARE LOOKING FOR SOLUTIONS
AMD RYZEN™ PRO ADDRESSES ALL THE CHALLENGES

PRODUCTIVITY AND COLLABORATION MUST CO-EXIST

Immersive audio and video solutions

Collaboration on battery power will be important

MAXIMIZING ROI

Focus on refresh cycles and maximizing longevity

Reduce application support and compatibility expenses

BUSINESS MUST EXPECT THE UNEXPECTED

Use of AI technologies to increase productivity

Plan performance for future digital transformation initiatives

POWER EFFICIENCY AND SUSTAINABILITY

By 2024, 80% of G2000 companies to report their carbon footprint

Businesses looking for ways to reduce energy consumption

Refer: IDC Perspective: Doc # US4870992 - IDC FutureScape: Worldwide Sustainability/ESG 2023 Predictions

AMD

INTRODUCING
AMD RYZEN™ PRO 7040 SERIES PROCESSORS
POWERING THE BEST BUSINESS PCs IN THE WORLD

'ZEN 4' — WORLD'S FASTEST AND MOST ADVANCED BUSINESS PROCESSOR

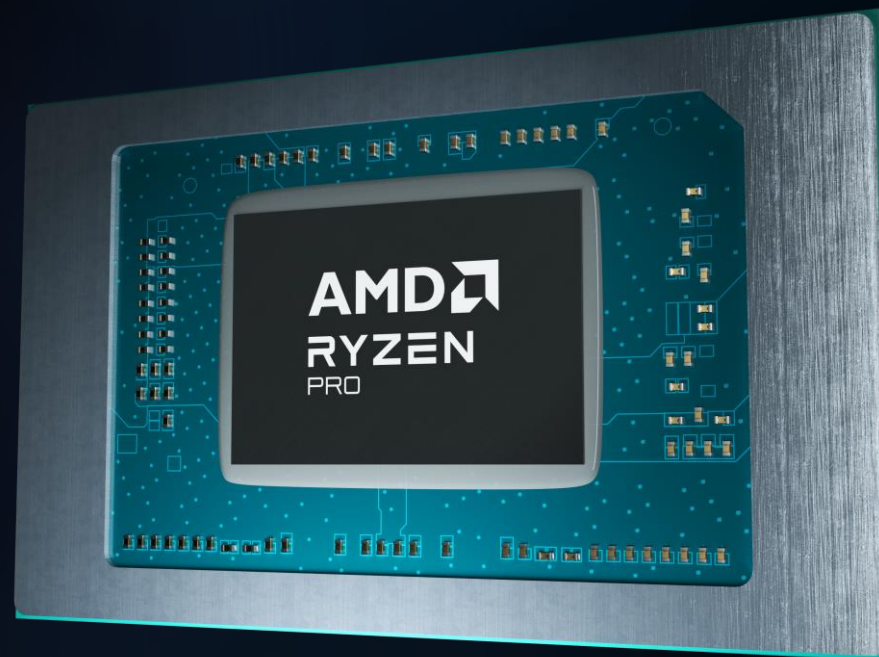**4nm** — ULTRA POWER-EFFICIENT BUSINESS LAPTOP PROCESSORS

AMD RDNA 3 — WORLD'S MOST POWERFUL INTEGRATED GRAPHICS

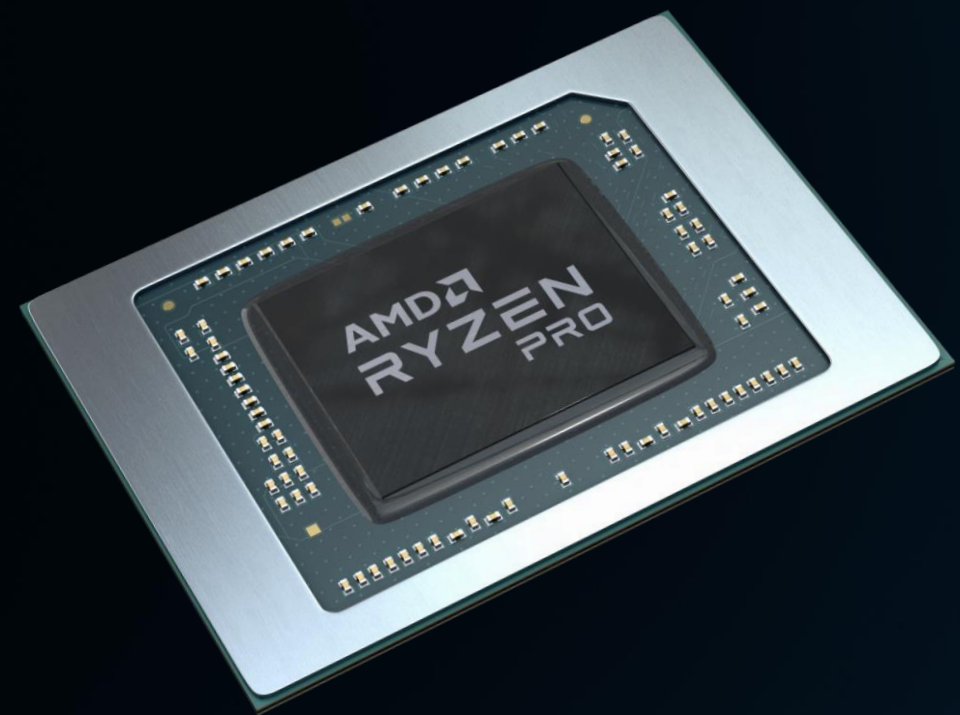**AMD RYZEN AI** — WORLD'S FIRST INTEGRATED AI ENGINE IN AN X86 PROCESSOR*

DESIGNED FOR UNCOMPROMISING INNOVATION, SPEED AND POWER

*Available on select models

See endnotes: GD-203, PHX-2, PHX-3, PHX-7

AMD RYZEN™ PRO 7040 SERIES

THE WORLD'S FASTEST ULTRATHIN PROCESSOR FOR PCS

Ryzen™ 9 PRO **7940HS**

| 8-Core | Up To 5.2 GHz | 24MB | 35-54W |
| 16-Thread | 4.0 GHz | Cache | TDP |

Ryzen™ 7 PRO **7840U**

| 8-Core | Up To 5.1 GHz | 24MB | 15-28W |
| 16-Thread | 3.3 GHz | Cache | TDP |

Ryzen™ 7 PRO **7840HS**

| 8-Core | Up To 5.1 GHz | 24MB | 35-54W |
| 16-Thread | 3.8 GHz | Cache | TDP |

Ryzen™ 5 PRO **7640U**

| 6-Core | Up To 4.9 GHz | 22MB | 15-28W |
| 12-Thread | 3.5 GHz | Cache | TDP |

FEATURING RYZEN™ AI

On select models

Ryzen™ 5 PRO **7640HS**

| 6-Core | Up To 5.0 GHz | 22MB | 35-54W |
| 12-Thread | 4.3 GHz | Cache | TDP |

Ryzen™ 5 PRO **7540U**

| 6-Core | Up To 4.9 GHz | 22MB | 15-28W |
| 12-Thread | 3.2 GHz | Cache | TDP |

See endnotes GD-150

AMD

AMD RYZEN™ PRO 7040: UNCOMPROMISED CAPABILITY

	EVERYDAY PRODUCTIVITY	SEAMLESS MULTITASKING	POWER EFFICIENT	LONG BATTERY LIFE
AMD RYZEN™ 7 PRO **7840U**	✓	✓	✓	✓
Intel Core™ **i7-1370P**	✓	✓	✗	✗
Intel Core™ **i7-1360P**	✓	✗	*	*
Intel Core™ **i7-1365U**	✓	✗	✗	✗
Intel Core™ **i7-1355U**	✓	✗	*	*

* Systems not tested

☑ Better Multi-tasking capabilities

☑ Better Processor performance

☑ Better Power efficiency

☑ Better Collaboration battery life

ONE PROCESSOR CHECKS ALL THE BOXES

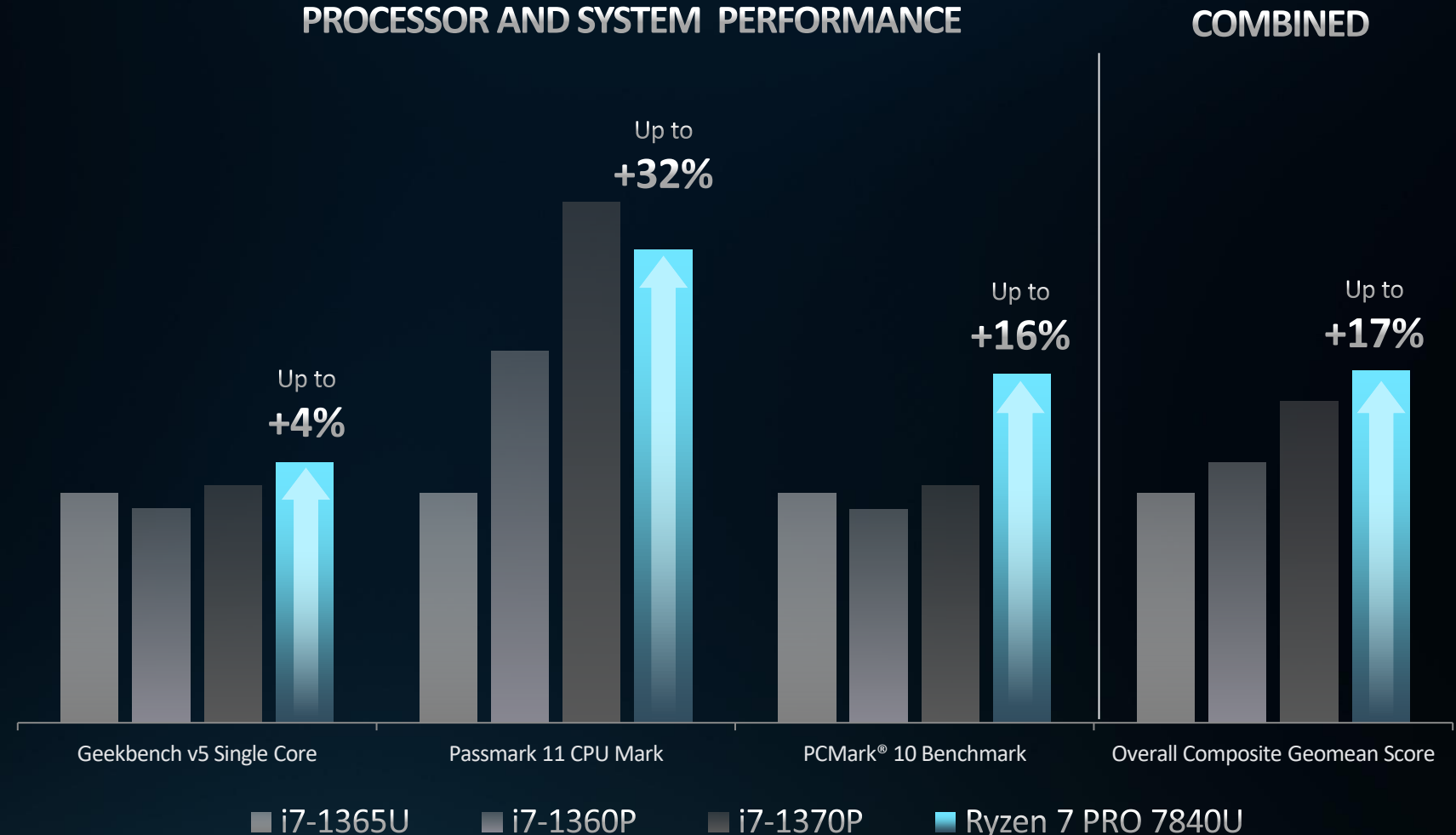AMD RYZEN™ 7 PRO **7840U**

See endnotes: PHXP-10, PHXP-25, PHXP-26, PHXP-32

AMD

LEADERSHIP PERFORMANCE
AMD RYZEN™ PRO UNCOMPROMISING SOLUTION

FASTER PERFORMANCE IN PREMIUM BUSINESS LAPTOPS

- Superior "Zen 4" architecture
- 8 high performance cores
- "U Series" provides performance *and* power efficiency for T&L systems
- Competes against higher power "P Series"

PROCESSOR AND SYSTEM PERFORMANCE

COMBINED

Up to
+4%

Up to
+32%

Up to
+16%

Up to
+17%

Geekbench v5 Single Core

Passmark 11 CPU Mark

PCMark® 10 Benchmark

Overall Composite Geomean Score

■ i7-1365U   ■ i7-1360P   ■ i7-1370P   ■ Ryzen 7 PRO 7840U

MICROSOFT TEAMS BATTERY LIFE (SYSTEM VS SYSTEM)
AMD x86 EFFICIENCY SETS THE STANDARD

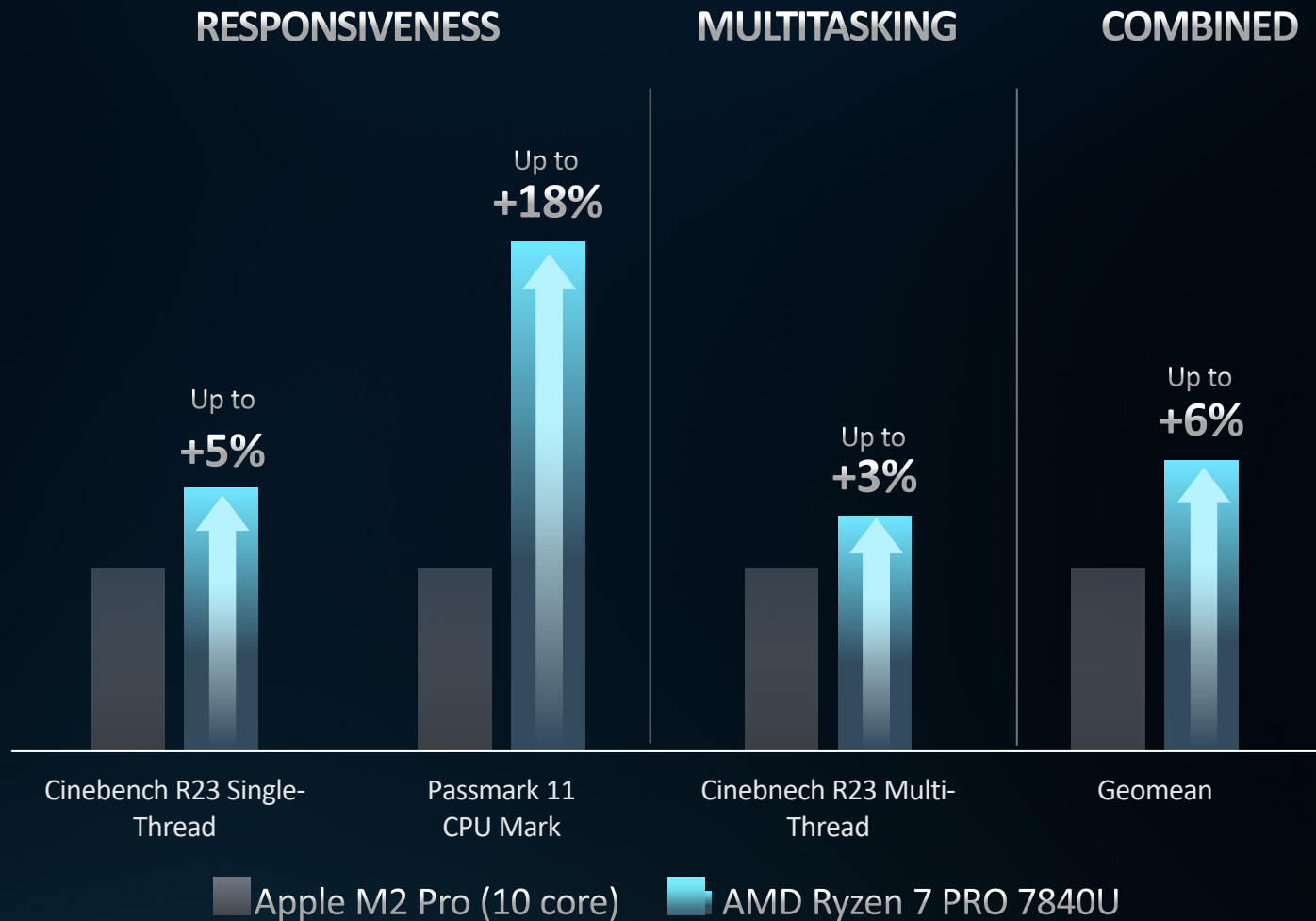| Intel Core i7-1370P	Intel Core i7-1365U	Apple M2 Pro (10 core)	AMD Ryzen 7 PRO 7840U
4:00	**4:18**	**6:13**	**6:48**
Total Run Time	Total Run Time	Total Run Time	Total Run Time
Battery Size: 54 Wh	Battery Size: 54 Wh	Battery Size: 69.6 Wh	Battery Size: 51.3Wh
Baseline	UP TO **+8%**	UP TO **+55%**	UP TO **+70%**

LEADERSHIP CPU PERFORMANCE
COMPARED TO APPLE M2 PRO

FASTER CPU PERFORMANCE IN PREMIUM BUSINESS LAPTOPS

- Superior "Zen 4" architecture

- 4nm delivered as promised

- 8 high performance cores

RESPONSIVENESS		MULTITASKING	COMBINED

Up to **+5%**
Cinebench R23 Single-Thread

Up to **+18%**
Passmark 11 CPU Mark

Up to **+3%**
Cinebnech R23 Multi-Thread

Up to **+6%**
Geomean

■ Apple M2 Pro (10 core)   ■ AMD Ryzen 7 PRO 7840U

See endnote PHXP-30, PHXP-31

AMD

LEADERSHIP CPU PERFORMANCE FOR PROFESSIONALS
POWERFUL MOBILE WORKSTATION PERFORMANCE WITH AMD RYZEN™ 7040HS

PEAK PERFORMANCE ON-THE-GO FOR DEMANDING WORKFLOWS

- Tackle the most demanding professional applications with desktop-class performance

- Integrated Radeon™ PRO graphics driver for seamless design experiences
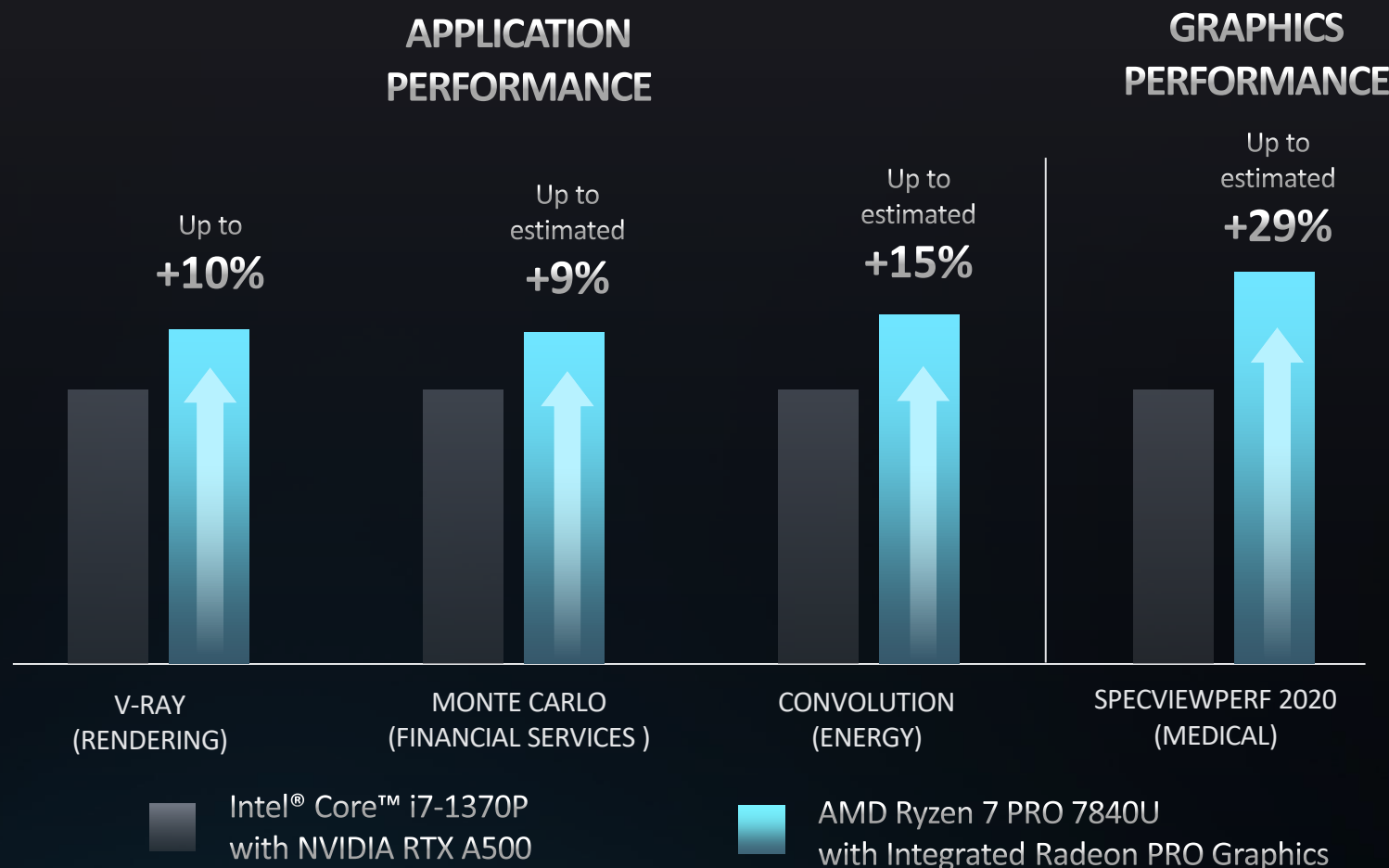
APPLICATION PERFORMANCE

Up to estimated **+7%** — RODINA CFD (PRODUCT DEVELOPMENT)

Up to **+13%** — V-RAY (RENDERING)

Up to estimated **+13%** — MONTE CARLO (FINANCIAL SERVICES)

Up to estimated **+15%** — NAMD (LIFE SCIENCES)

Up to estimated **+33%** — CONVOLUTION (ENERGY)

Intel® Core™ i9-13900H   AMD Ryzen™ 9 PRO 7940HS

AMD

LEADERSHIP CPU PERFORMANCE FOR PROFESSIONALS
POWERFUL MOBILE WORKSTATION PERFORMANCE WITH THE AMD RYZEN™ 7040U

GET MORE DONE IN LESS TIME WHEREVER INSPIRATION TAKES YOU

- Thin and light designs to conquer demanding professional applications on-the-go

- Integrated Radeon™ PRO graphics driver for seamless design experiences

APPLICATION PERFORMANCE

GRAPHICS PERFORMANCE

Up to
+10%

Up to estimated
+9%

Up to estimated
+15%

Up to estimated
+29%

V-RAY
(RENDERING)

MONTE CARLO
(FINANCIAL SERVICES)

CONVOLUTION
(ENERGY)

SPECVIEWPERF 2020
(MEDICAL)

Intel® Core™ i7-1370P
with NVIDIA RTX A500

AMD Ryzen 7 PRO 7840U
with Integrated Radeon PRO Graphics

See endnote PHXP-14, PHXP-15, PHXP-16 and PHXP-17

AMD

THE FUTURE STARTS NOW

FOR WINDOWS LAPTOPS
WITH AI TECHNOLOGY BUILT IN

Only with **AMD** **RYZEN AI**

THE JOURNEY STARTS
WITH ADVANCED VIDEO COLLABORATION

Windows Studio Effects uses AMD Ryzen™ AI using the integrated camera
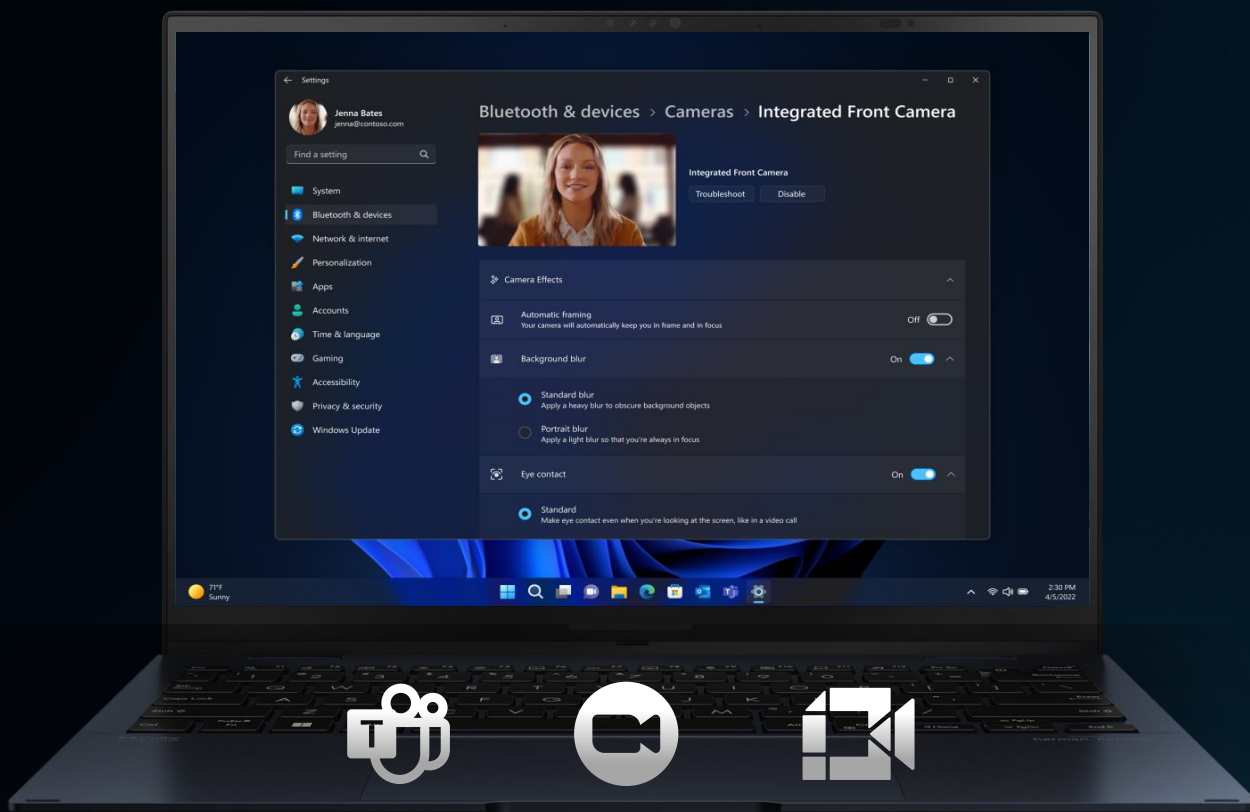
ENHANCED BACKGROUND BLURS
to help limit distractions while
you are on a video call

AUTO FRAMING
so the camera follows you while
you are multitasking on a video call

EYE GAZE CORRECTION
so that your audience knows
you are focused on them

GET READY TO EXPLORE A NEW WORLD OF POSSIBILITIES
WITH FUTURE WINDOWS APPLICATIONS

ACCELERATE DATA ANALYTICS

Work efficiently on data analysis, regression, and predictive modeling with your local data

HAVE A PERSONAL AI ASSISTANT

Get help building a presentation, writing email responses, managing your budget, and more

EXCEL IN COMPUTER VISION

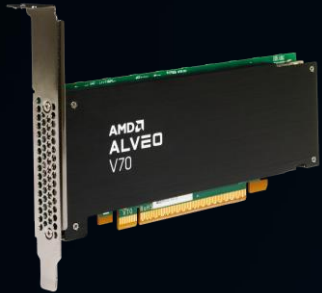Accelerate computation for object detection, image classification, and facial recognition

CREATE LIKE NEVER BEFORE

Deliver a responsive experience to enable creators to dream bigger

AMD AI SOLUTION LEADERSHIP

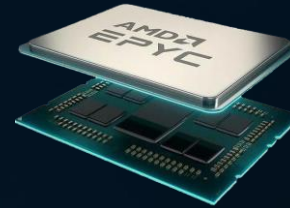## FROM CLOUD, EDGE TO THE CLIENT

**AMD Xilinx
Accelerators**

**AMD Radeon™
Instinct Accelerators**

**AMD EPYC™
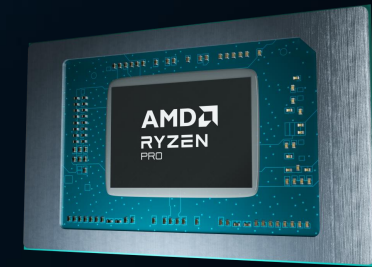Processors**

**AMD Ryzen™ PRO 7040
Series Processors**

Leading AI Compute
Solutions

Data Center
Deep Learning
Solutions

Industry Leading
Server Solution

Laptops
Workstations

UNLOCKING THE BENEFITS OF AI WITH CUTTING-EDGE SILICON FROM AMD AND LEADING SOFTWARE PARTNERSHIPS
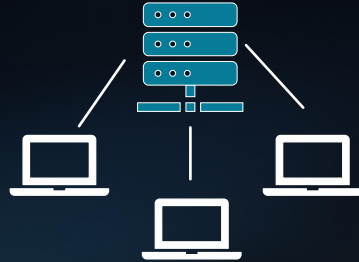
AMD PRO TECHNOLOGIES

AMD PRO Security

Layers of built-in security technology for chip-to-cloud protection against sophisticated attacks

AMD PRO Manageability

For simplified deployment and management that is compatible with your current infrastructure

AMD PRO Business Ready

Offering peace of mind by keeping your enterprise's availability and software stable
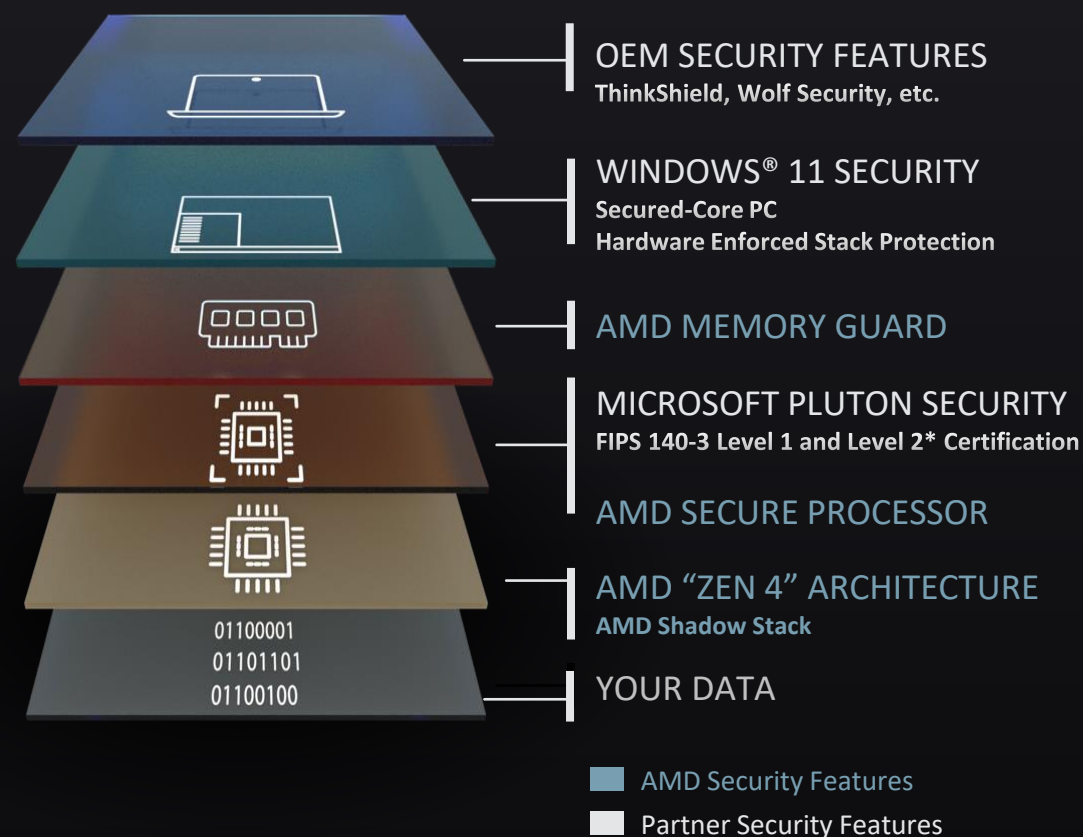
AVAILABLE ON EVERY RYZEN™ PRO PROCESSOR

AMD PRO SECURITY

A MULTILAYERED SET OF SECURITY FEATURES AT THE HARDWARE, OS, AND SYSTEM LEVEL

AMD RYZEN™ PRO 7040 SERIES
DELIVERING THE MOST MODERN SECURITY

Windows 11 PCs powered by Ryzen™ PRO 7040 series processors come with integrated Microsoft Pluton security delivering chip-to-cloud protection

AMD Memory Guard helps protect company's sensitive business data when an employee's PC is lost or stolen

AMD offers outstanding silicon assisted security to enable critical security solutions from OS providers and OEMs

OEM SECURITY FEATURES
ThinkShield, Wolf Security, etc.

WINDOWS® 11 SECURITY
Secured-Core PC
Hardware Enforced Stack Protection

AMD MEMORY GUARD

MICROSOFT PLUTON SECURITY
FIPS 140-3 Level 1 and Level 2* Certification

AMD SECURE PROCESSOR

AMD "ZEN 4" ARCHITECTURE
AMD Shadow Stack

YOUR DATA

01100001
01101101
01100100

AMD Security Features
Partner Security Features

See endnote RMP-20, GD-206, GD-72 *FIPS 140-3 Level 2 certification under test.

AMD

2023 AMD COMMERCIAL LAPTOP PORTFOLIO

POWERED BY AMD RYZEN™ PRO 7040 AND 7030 SERIES PROCESSORS

HP

HP EliteBook 865/845/835 G10

AMD RYZEN™ PRO 7040 SERIES

HP EliteBook 645/ 655 G10

AMD RYZEN™ PRO 7030 SERIES
AMD RYZEN™ 7030 SERIES
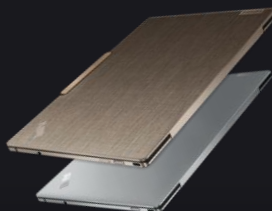
HP ProBook 445/ 455 G10
HP Pro x360 435 G10

AMD RYZEN™ 7030 SERIES

HP 245/ 255 G10
select availability by market
AMD RYZEN™ 7030 SERIES

Lenovo

THINKPAD
Z13 / Z16

AMD RYZEN™ PRO 7040
AMD EXCLUSIVE

THINKPAD
T14 / T14s / T16 / X13

AMD RYZEN™ PRO 7040

THINKPAD
L13 / L13Y / L14 /L15

AMD RYZEN™ PRO 7030
AMD RYZEN™ 7030

THINKPAD E 14/16

AMD RYZEN™ PRO 7030
AMD RYZEN™ 7030

AMD

MOBILE WORKSTATION GROWTH

CURRENT PORTFOLIO

Lenovo ThinkPad P15v

Lenovo ThinkPad P16s

Lenovo ThinkPad P14s

NEW ADDITIONS

POWERED BY AMD RYZEN™ PRO 7040 SERIES PROCESSORS

HP ZBook Power G10 A
AMD RYZEN™ PRO 7040 HS-SERIES

HP ZBook Firefly 14 G10 A
AMD RYZEN™ PRO 7040 HS-SERIES

5X PORTFOLIO GROWTH SINCE 2021

BUILT FOR PROFESSIONALS

AMD RDNA™ 3 GRAPHICS

Workstation-class performance for professional applications

+

AMD SOFTWARE: PRO EDITION

Application optimized professional graphics

Mobile workstation portfolio growth based on AMD internal analysis

AMD

AMD RYZEN™ PRO 7040 SERIES
TOGETHER WE ADVANCE_PCs

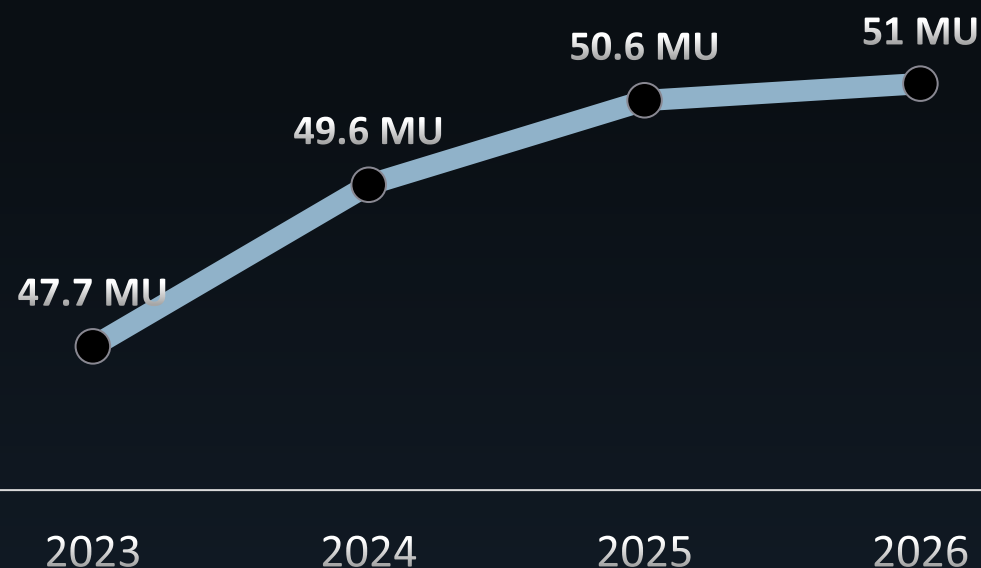|	AMD RYZEN™ PRO 6000 SERIES	AMD RYZEN™ PRO 7040 SERIES	ADVANTAGE
CPU ARCHITECTURE	"Zen 3+"	NEW "Zen 4"	Up to 29% faster responsiveness, 23% faster multitasking for accelerated productivity
PROCESS	6nm	NEW 4nm	Ultra cool and power efficient
GRAPHICS	AMD RDNA™ 2	NEW AMD RDNA™ 3	Most powerful AMD integrated graphics ever with up to 19% faster graphics performance
EXPERIENCES	Auto background noise cancellation Power Slider Optimizations	NEW Integrated Ryzen™ AI	Experience AI everyday on business laptops with longer battery life, faster speed and near silent operation
AMD PRO TECHNOLOGIES	Microsoft Pluton Security ProcessorAMD Manageability Processor	NEW Cloud-Based Remote Manageability	New remote manageability solution ensures end-to-end compliance and protection with the most modern security

See endnotes PHXP-23, PHX-7

AMD

AMD RYZEN™ PRO 7000 SERIES PROCESSORS

FOR BUSINESS DESKTOPS
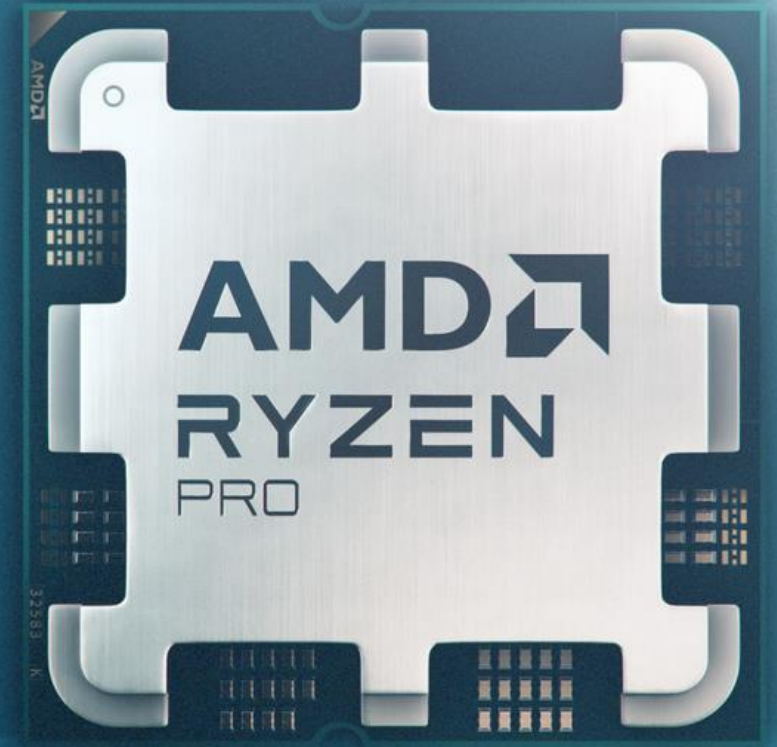
CONTINUED INNOVATION FOR BUSINESS DESKTOP PCS

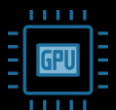## WORLDWIDE COMMERCIAL DESKTOP PC TAM

- **GROW YOUR BUSINESS WITH AMD**
- Focused roadmap supporting commercial and consumer client
- Leadership technologies
- Relentless optimization of power efficiency

Desktop TAM Source: IDC Quarterly Personal Computing Device Tracker, 2023Q1.

Introducing

AMD RYZEN™ PRO 7000 SERIES DESKTOP PROCESSORS WITH RADEON™ GRAPHICS

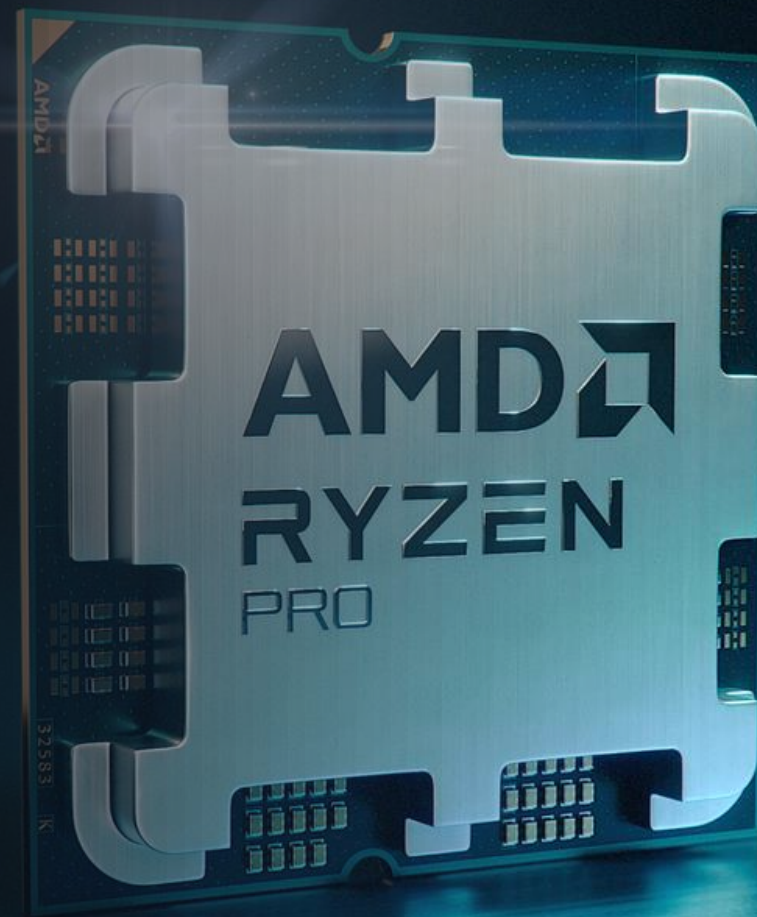- Up To 12 High Performance "Zen 4" Cores
- Integrated Radeon™ Graphics
- Power Efficient 65W TDP
- Advanced Multilayered Security Features with full support for Microsoft Secured-core PC
- AMD PRO Technologies

INTRODUCING AMD RYZEN™ PRO 7000 SERIES DESKTOP PROCESSORS

MODEL	CORES/ THREADS	COOLER	PLATFORM	FREQUENCY	L2 + L3 CACHE	ARCHITECTURE	PCIe®	DRAM	GRAPHICS	NODE	L2 + L3 CACHE	TDP
AMD Ryzen™ 9 PRO 7945	12/24	Wraith Spire	AM5	Up to 5.4 / 3.7 GHz	76 MB	"Zen 4"	GEN 5	DDR5	ON-CHIP RADEON™ GRAPHICS	5nm	76 MB	65W
AMD Ryzen™ 7 PRO 7745	8/16	Wraith Spire	AM5	Up to 5.3 / 3.8 GHz	40 MB	"Zen 4"	GEN 5	DDR5	ON-CHIP RADEON™ GRAPHICS	5nm	40 MB	65W
AMD Ryzen™ 5 PRO 7645	6/12	Wraith Spire	AM5	Up to 5.1 / 3.8 GHz	38 MB	"Zen 4"	GEN 5	DDR5	ON-CHIP RADEON™ GRAPHICS	5nm	38 MB	65W

THE AMD RYZEN™ PRO 7000 SERIES 5-STAR PLATFORM:

★ **5nm** (LEADING EFFICIENCY)   ★ **5GHz+**   ★ **AM5** (2025+ SUPPORT)   ★ **PCIe® 5.0** (GPU & SSD)   ★ **DDR5**

See endnotes GD-150

AMD
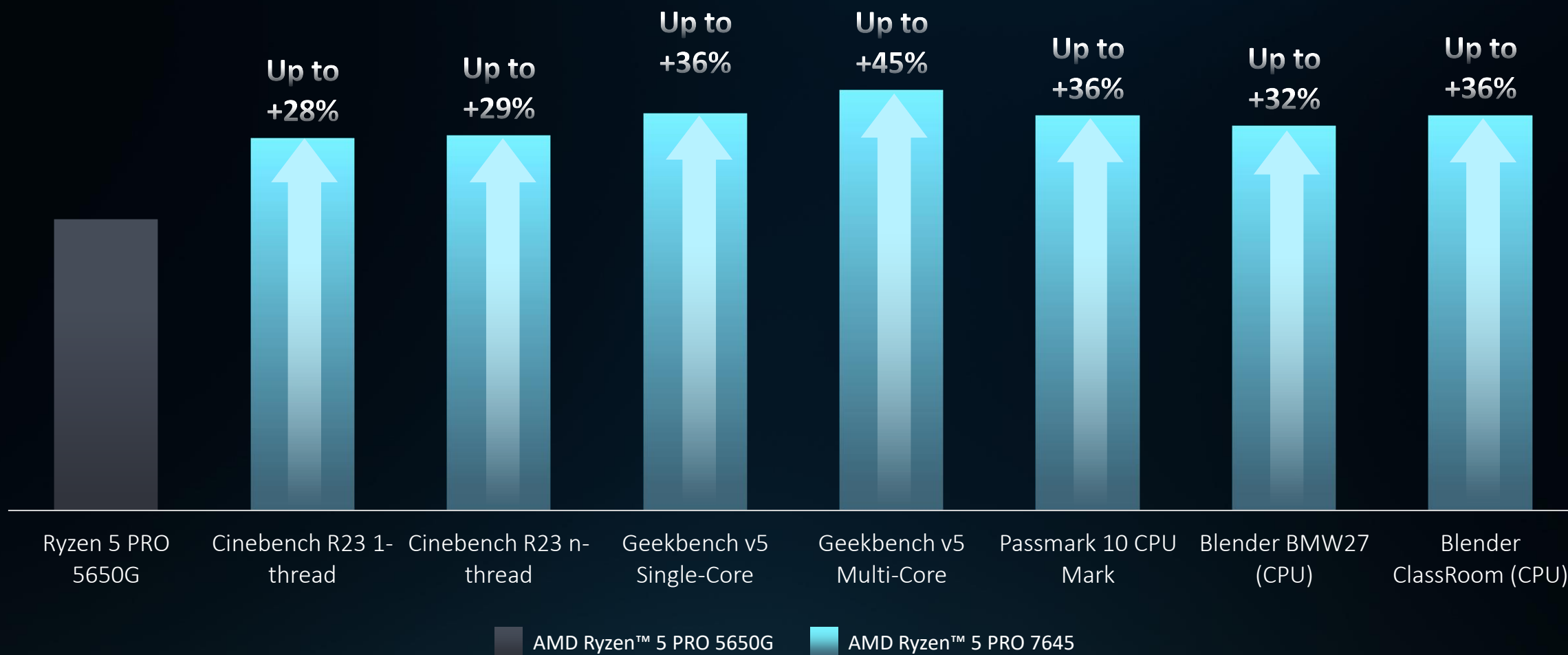
INCREASED PERFORMANCE FOR PRODUCTIVITY AND CREATION

RYZEN™ 5 PRO 7645 VS RYZEN™ 5 PRO 5650G

Desktop-class performance

Up to +28% — Cinebench R23 1-thread
Up to +29% — Cinebench R23 n-thread
Up to +36% — Geekbench v5 Single-Core
Up to +45% — Geekbench v5 Multi-Core
Up to +36% — Passmark 10 CPU Mark
Up to +32% — Blender BMW27 (CPU)
Up to +36% — Blender ClassRoom (CPU)

Ryzen 5 PRO 5650G

■ AMD Ryzen™ 5 PRO 5650G   ■ AMD Ryzen™ 5 PRO 7645

See endnote RPL-51

AMD

AMD RYZEN™ 5 PRO DELIVERS OFFICE PRODUCTIVITY LEADERSHIP

RYZEN™ 5 PRO 7645 VS 13TH GEN CORE I5-13400

Up to +1% — PassMark 10 CPU Mark
Up to +5% — Graphics 3DMark Fire Strike
Up to +6% — Outlook Procyon
Up to +8% — Word Procyon
Up to +10% — Excel Procyon
Up to +10% — MS Office Apps Procyon
Up to +13% — Web Browsing Kraken
Up to +15% — PowerPoint Procyon
Up to +21% — PCMark 10 Benchmark
Up to +25% — Adobe Photoshop Puget
Up to +48% — PCMark 10 Productivity

Core i5-13400

- 13th Gen Core i5-13400
- AMD Ryzen™ 5 PRO 7645

See endnote RPL-52

AMD

AMD SOCKET AM5
THE PLATFORM THAT GROWS WITH YOU

✓ **Affordable:** Motherboards starting from $85 USD

✓ **Easier Installation:** 1718 pin LGA socket

✓ **More Headroom:** Up to 230W socket power delivery

✓ **Latest technologies:** DDR5 and PCIe® 5.0 for performance growth

✓ **Compatibility:** Works with AM4 coolers to ease platform transition

✓ **Longevity:** Socket AM5 support planned through 2025+

AMD
together we advance_
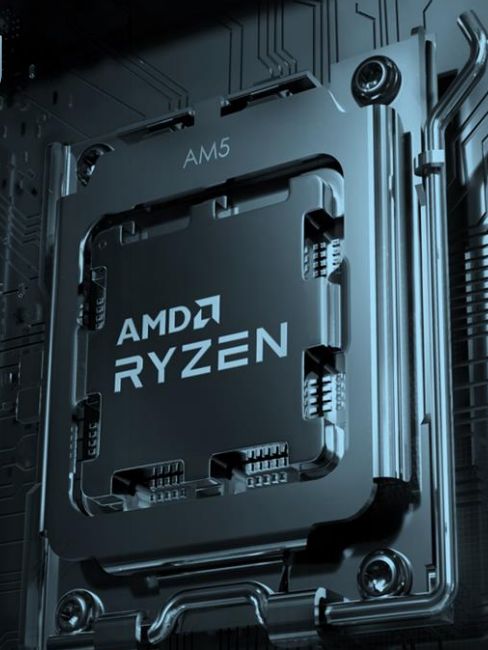
AMD RYZEN™ PRO 7000 SERIES PROCESSORS

AN UNWAVERING COMMITMENT TO PROFESSIONALS
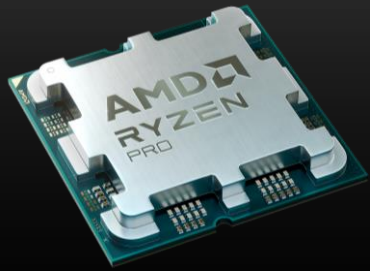
THE ULTIMATE PROCESSOR FOR PRODUCTIVITY AND CONTENT CREATION

- World's most advanced 12 core business desktop processor
- Up to 5.4 GHz boost clocks enable excellent performance
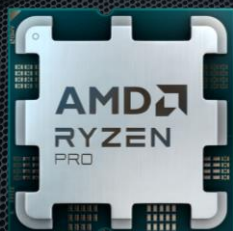
UPGRADABLE FOR YEARS TO COME

- Brand new AM5 platform that supports processor upgrades for years to come
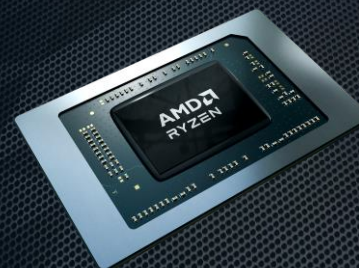
AMD PRO TECHNOLOGIES

- A full suite of enterprise-grade features for security, manageability, and reliability

* See endnotes: GD-203, GD-150

AMD RYZEN™ PRO 7000 SERIES DELIVERS MORE ACROSS DESKTOP AND MOBILE

AMD RYZEN™ PRO 7000 SERIES DESKTOP PROCESSORS

The World's most advanced x86 Desktop Processors

AMD RYZEN™ PRO 7040 SERIES MOBILE PROCESSORS

The World's First Integrated AI engine on an x86 Processor

CONTINUING A RELENTLESS PACE OF INNOVATION FOR HIGH-PERFORMANCE PROCESSORS

See Endnotes: PHX-3, RPL-004

Q&A

END NOTES

- Based on a smaller node size of the AMD processor for an x86 platform, as of August 2022. GD-203. RYZEN 7000 SERIES PRO mobile: Based on a smaller node size of the AMD processor for a business-class x86 platform, as of January 2022. **GD-203.**

- As of August 2022, the Ryzen 7040 15W processors are projected to have the highest graphics performance of any PC processor, compared to Intel 12th Gen 15W mobile processors. **PHX-2**

- As of August 2022, select Ryzen™ 7040 processors for mobile with dedicated AI hardware are the only x86 PC processors with dedicated AI hardware. **PHX-3**

- Engineering projections are not a guarantee of final performance. Performance projection by AMD engineering staff based on expected battery life for video playback. Projections based on pre-silicon engineering analysis. Estimated battery life increases assume identically hardware and software configured systems. Specific projections are based on reference design platforms and are subject to change when final products are released in market. **PHX-7**

- Max boost for AMD Ryzen processors is the maximum frequency achievable by a single core on the processor running a bursty single-threaded workload. Max boost will vary based on several factors, including, but not limited to: thermal paste; system cooling; motherboard design and BIOS; the latest AMD chipset driver; and the latest OS updates. **GD-150.**

- Testing as of 5/31/23 by BOXX Technologies, comissioned by AMD, utilizing System configuration for AMD Ryzen 7 PRO 7840U:HP EliteBook 845 G10, 16GB RAM, 1TB NVMe SSD, Integrated Radeon Graphics, Windows 11 Pro. System configuration for Intel Core i7 1365U: Dell Latitude 5440, 16GB RAM, 512GB NVMe SSD, Intel Integrated graphics, Windows 11 Pro using the following tests: Geekbench v5 Single Core, Cinebench R23 nT, Passmark 11 Overall, PassMark 11 CPU Mark, 3DMark Night Raid Graphics, Blender Bench CPU - BMW, Blender Bench CPU - Classroom. Laptop manufactures may vary configurations yielding different results. **PHXP-10**

- Testing as of 6/5/23 by BOXX Technologies, commissioned by AMD, utilizing System configuration for AMD Ryzen 7 PRO 7840U:HP EliteBook 845 G10, 16GB RAM, 1TB NVMe SSD, Integrated Radeon Graphics, Windows 11 Pro. System configuration for Intel Core i7 1360P: Dell XPS 13+, 16GB RAM, 512GB NVMe SSD, Intel Integrated graphics, Windows 11 Pro using the following tests: Cinebench R23 nT and UL Procyon Office Productivity Overall Benchmark. Laptop manufactures may vary configurations yielding different results. **PHXP-25**

- Testing as of 6/5/23 by BOXX Technologies, commissioned by AMD, utilizing System configuration for AMD Ryzen 7 PRO 7840U:HP EliteBook 845 G10, 16GB RAM, 1TB NVMe SSD, Integrated Radeon Graphics, Windows 11 Pro. System configuration for Intel Core i7 1355U: Dell Latitude 5540, 16GB RAM, 1TB NVMe SSD, Intel Integrated graphics, Windows 11 Pro using the following tests: Cinebench R23 nT and UL Procyon Office Productivity Overall Benchmark. Laptop manufactures may vary configurations yielding different results. **PHXP-26**

- Based on internal testing by AMD as of 6/3/23. 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." Apple system run from power level 100 > 0 @150nits brightness, and battery mode is set to "Low Power Mode.". System configuration for Apple M2 Pro 10 core: Apple MacBook Pro 14,integrated graphics, 16 GBytes RAM, 512GB NVMe SSD, MacOS 13.2 and 69.6Wh battery consuming . System configuration for Ryzen™ 7 7840U: HP EliteBook 845 G10, AMD Radeon Graphics, 16GB RAM, 1TB NVMe SSD, Windows 11 Pro and 51.3Wh battery. System config for Intel core i7 1365U, 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

- Testing as of 5/31/23 by BOXX Technologies, comissioned by AMD, utilizing Dell Latitude 5440 with Intel Core i7 1355U processor, with 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, 256GB NVMe SSD and Windows 11 Pro, Dell XPS 13+ with Intel Core i7 1360P processor, Intel Integrated graphics, 16GB RAM, 512GB NVMe SSD and Windows 11 Pro, Dell Latitude 5440 with Intel Core i7 1365U processor, Intel Integrated graphics, 16GB RAM, 512GB NVMe SSD, Windows 11 Pro, HP EliteBook 845 G10 with Ryzen PRO R7-7840UU processor, Integrated Radeon Graphics, 16GB RAM 1TB NVMe SSD, Windows 11 Pro. Using the following tests: Geekbench v5 Single core, Passmark 11 CPU Mark, and PCMark 10 benchmark. PC manufacturers may vary configurations yielding different results. Results may vary . PCMark® is a registered trademark of Futuremark Corporation. **PHXP-27**

- Testing as of 5/31/23 by BOXX Technologies, comissioned by AMD, utilizing Dell Latitude 5440 with Intel Core i7 1355U processor, with 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, 256GB NVMe SSD and Windows 11 Pro, Dell XPS 13+ with Intel Core i7 1360P processor, Intel Integrated graphics, 16GB RAM, 512GB NVMe SSD and Windows 11 Pro, Dell Latitude 5440 with Intel Core i7 1365U processor, Intel Integrated graphics, 16GB RAM, 512GB NVMe SSD, Windows 11 Pro, HP EliteBook 845 G10 with Ryzen PRO R7-7840UU processor, Integrated Radeon Graphics, 16GB RAM 1TB NVMe SSD, Windows 11 Pro. Using the following tests: Geekbench v5 Single Core, Passmark 11 CPU Mark and PCMark 10 Benchmark. PC manufacturers may vary configurations yielding different results. Results may vary . PCMark® is a registered trademark of Futuremark Corporation.**PHXP-28**

- Testing as of 6/2/23 by AMD internal performance lab. System configuration for AMD Ryzen PRO 7840U: Lenovo ThinkPad T14s Gen 4, 32GB RAM, 2TB NVMe SSD, Integrated Radeon graphics, Windows 11 Pro running in Power Efficiency mode. System configuration for Intel Core i7 1370P: Dell Latitude 5440, 16GB RAM, 512GB NVMe SSD, intel integrated graphics, Windows 11 Pro running in Power Efficiency mode using the following tests: Teams + Procyon Overall, Teams + Procyon Word, Teams + Procyon Excel, Teams + Procyon Powerpoint, and Microsoft Teams + Procyon Wallpower consumed (watts). Each Microsoft Teams call consists of 9 participants (3X3) while running each individual benchmark. Laptop manufactures may vary configurations yielding different results. **PHXP-24**

- Testing as of 6/3/23/23 by BOXX Technologies, comissioned by AMD, utilizing System configuration for AMD Ryzen 7 PRO 7840U:HP EliteBook 845 G10, 16GB RAM, 1TB NVMe SSD, Integrated Radeon Graphics, Windows 11 Pro. Testing as of 6/3/23/23 by AMD Internal Labs utilizing system configuration for Apple M2 Pro (10 core) processor: Apple MacBook Pro 14, 16GB RAM, 512GB NVMe SSD, Apple Integrated graphics, MacOs 13.2 using the following tests: Cinebench R23 1T, Cinebench R23 nT, Passmark 11 CPU Mark. Laptop manufactures may vary configurations yielding different results. **PHXP-30**

- Testing as of 6/3/23/23 by BOXX Technologies, comissioned by AMD, utilizing System configuration for AMD Ryzen 7 PRO 7840U:HP EliteBook 845 G10, 16GB RAM, 1TB NVMe SSD, Integrated Radeon Graphics, Windows 11 Pro. Testing as of 6/3/23/23 by AMD Internal Labs utilizing system configuration for Apple M2 Pro (10 core) processor: Apple MacBook Pro 14, 16GB RAM, 512GB NVMe SSD, Apple Integrated graphics, MacOs 13.2 using the following tests: Composite Geomean. Geomean score is a composite average score of Cinebench R23 1T, Cinebench R23 nT, Passmark 11 CPU Mark benchmark reults. Laptop manufactures may vary configurations yielding different results. **PHXP-31**

AMD

END NOTES

- PHXP-14: Based on AMD performance lab testing as of 26 May, 2023 using the Chaos V-RAY benchmark to compare the performance of an AMD Ryzen™ 7 PRO 7840U reference system with integrated Radeon PRO graphics, 32GB RAM, 1TB SSD, Windows 11 PRO vs a DELL Precision 3480 with an Intel Core i7-1370P, NVIDIA RTX A500 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. System manufacturers may vary configurations, yielding different results. **PHXP-14**

- PHXP-15: Based on AMD performance lab testing as of 26 May, 2023 using the SPECworkstation® 3.1 Monte Carlo subtest to compare the performance of an AMD Ryzen™ 7 PRO 7840U reference system with integrated Radeon PRO graphics, 32GB RAM, XXGB SSD, Windows 11 PRO vs a DELL Precision 3480 with an Intel® Core™ i7-1370P, NVIDIA RTX™ A500 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. System manufacturers may vary configurations, yielding different results. SPECworkstation® is a registered trademark of the Standard Performance Evaluation Corporation. Additional information about the SPEC® benchmarks can be found at gwpg.spec.org. **PHXP-15**

- PHXP-16: Based on AMD performance lab testing as of 26 May, 2023 using the SPECworkstation® 3.1 Convolution subtest to compare the performance of an AMD Ryzen™ 7 PRO 7840U reference system with integrated Radeon PRO graphics, 32GB RAM, 1TB SSD, Windows 11 PRO vs a DELL Precision 3480 with an Intel® Core™ i7-1370P, NVIDIA RTX™ A500 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. System manufacturers may vary configurations, yielding different results. SPECworkstation® is a registered trademark of the Standard Performance Evaluation Corporation. Additional information about the SPEC® benchmarks can be found at gwpg.spec.org. **PHXP-16**

- PHXP-17: Based on AMD performance lab testing as of 26 May, 2023 using the SPECviewperf® 2020 v3.1 medical-03 subtest to compare the performance of an AMD Ryzen™7 PRO 7840U reference system with integrated Radeon PRO graphics, 32GB RAM, 1TB SSD, Windows 11 PRO vs a DELL Precision 3480 with an Intel® Core™ i7-1370P, NVIDIA RTX™ A500 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. System manufacturers may vary configurations, yielding different results. SPECviewperf® is a registered trademark of the Standard Performance Evaluation Corporation. Additional information about the SPEC® benchmarks can be found at gwpg.spec.org. **PHXP-17**

- PHXP-18: Based on AMD performance lab testing as of 26 May, 2023 using the SPECworkstation® 3.1 Rodina (CFD) subtest metric to compare the performance of an Ryzen™ 9 PRO 7940HS reference system with integrated Radeon PRO graphics, 32GB RAM, 1TB SSD, Windows 11 PRO vs a DELL Precision 3480 with an Intel® Core™ i9-13900H NVIDIA RTX™ A2000 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. Results may vary. **PHXP-18**

- PHXP-19: Based on AMD performance lab testing as of 26 May, 2023 using the SPECworkstation® 3.1 NAMD subtest metric to compare the performance of an Ryzen™ 9 PRO 7940HS reference system with integrated Radeon PRO graphics, 32GB RAM, 1TB SSD, Windows 11 PRO vs a DELL Precision 3480 with an Intel® Core™ i9-13900H NVIDIA RTX™ A2000 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. Results may vary. **PHXP-19**

- PHXP-20: Based on AMD performance lab testing as of 26 May, 2023 using the SPECworkstation® 3.1 Monte Carclo subtest metric to compare the performance of an Ryzen™ 9 PRO 7940HS reference system with integrated Radeon PRO graphics, 32GB RAM, 1TB SSD, Windows 11 PRO vs a DELL Precision 3581 with an Intel® Core™ i9-13900H NVIDIA RTX™ A2000 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. Results may vary. **PHXP-20**

- PHXP-21: Based on AMD performance lab testing as of 26 May, 2023 using the SPECworkstation® 3.1 Convolution subtest metric to compare the performance of an Ryzen™ 9 PRO 7940HS reference system with integrated Radeon PRO graphics, 32GB RAM, 1TB SSD, Windows 11 PRO vs a DELL Precision 3581 with an Intel® Core™ i9-13900H NVIDIA RTX™ A2000 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. Results may vary. **PHXP-21**

- PHXP-22: Based on AMD performance lab testing as of 26 May, 2023 using the Chaos V-RAY benchmark to compare the performance of an AMD Ryzen™ 9 PRO 7940HS reference system with integrated Radeon PRO graphics, 32GB RAM, 1TB SSD, Windows 11 PRO vs a DELL Precision 3581 with an Intel® Core™ i9-13900H NVIDIA RTX™ A2000 graphics card, 32GB RAM, 1TB SSD, Windows 11 PRO. System manufacturers may vary configurations, yielding different results. **PHXP-22**

- 'Most Modern Security' is defined as AMD CPUs with Microsoft Secured-core PC - Modern Security technology enabled by the system manufacturer. Check with your system manufacturer prior to purchase. **RMP-20**

- 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.**

- 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.**

- Testing on the HP EliteBook 845 G10 as of 5/31/23 by BOXX Technologies, comissioned by AMD, utilizing System configuration for AMD Ryzen 7 PRO 7840U:HP EliteBook 845 G10, 16GB RAM, 1TB NVMe SSD, Integrated Radeon Graphics, Windows 11 Pro. Testing on the HP EliteBook 845 G9 as of 5/31/23 by AMD internal performance lab. System configuration for AMD Ryzen PRO 6850U: HP EliteBook 845 G9, 16GB RAM, 1TB NVMe SSD, Integrated Radeon graphics, Windows 11 Pro using the following tests: Geekbench v5 single core, Geekbench v5 Multicore, and 3D Mark Firestrike Ultra. Laptop manufactures may vary configurations yielding different results. **PHXP-23**

- Engineering projections are not a guarantee of final performance. Performance projection by AMD engineering staff based on expected battery life for video playback. Projections based on pre-silicon engineering analysis. Estimated battery life increases assume identically hardware and software configured systems. Specific projections are based on reference design platforms and are subject to change when final products are released in market. **PHX-7**

AMD

END NOTES

- Max boost for AMD Ryzen and Athlon processors is the maximum frequency achievable by a single core on the processor running a bursty single-threaded workload. Max boost will vary based on several factors, including, but not limited to: thermal paste; system cooling; motherboard design and BIOS; the latest AMD chipset driver; and the latest OS updates. **GD-150**

- 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.**

- Based on a smaller node size of the AMD processor for an x86 platform, as of April 2023. **GD-203.**

- Testing as of 15 August, 2022, by AMD Performance Labs using the following hardware: AMD AM5 Reference Motherboard with AMD Ryzen™ 7 7700X with G.Skill DDR5-6000C30 (F5-6000J3038F16GX2-TZ5N) with AMD EXPO™ loaded, AMD AM4 Reference Motherboard with AMD Ryzen™ 7 5800X and DDR4-3600C16. Processors fixed to 4GHz frequency with 8C16 enabled and evaluated with 22 different workloads. ALL SYSTEMS configured with NXZT Kraken X63, open air test bench, Radeon™ RX 6950XT (driver 22.7.1 Optional), Windows® 11 22000.856, AMD Smart Access Memory/PCIe® Resizable Base Address Register ("ReBAR") ON, Virtualization-Based Security (VBS) OFF. Desktop configurations will vary, yielding different results. **RPL-005**

- Testing as of 15 November, 2022, by AMD Performance Labs using the following benchmarks: Cinebench R23 Single Thread, Cinebench R23 Multi Thread, Geekbench v5 Single-Core, Geekbench v5 Multi-Core, Passmark 10 CPU Mark, Blender BMW27

- (CPU), Blender ClassRoom (CPU). System configuration for AMD Ryzen 5 PRO 7645: AMD AM5 Reference Motherboard, 32 GB (2X16GB) DDR5-6000, Samsung SSD 980 PRO 1TB NVMe, Nvidia RTX 3090 dGPU (driver: 516.59 - WHQL), AMD Wraith Prism Cooler, Windows® 11 Pro. System configuration Ryzen 5 PRO 5650G: AM4 Reference motherboard, 16GB (2x8GB) DDR4-3200 RAM, Samsung 970 Pro 512GB SSD, AMD Radeon UMA graphics (driver: 27.20.14528.9), Windows® 10 Pro, and AMD Wraith Prism cooler. ALL SYSTEMS configured with open air test bench, AMD Smart Access Memory OFF, Virtualization-Based Security (VBS) OFF. Results may vary. **RPL-51**

- Testing as of 5/31/23 by AMD Performance Labs using the following benchmarks: PassMark 10 CPU Mark, 3DMark Fire Strike Graphics, PCMark 10 Digital Content Creation, Procyon Office Productivity, Kraken, PCMark 10 App Start Up, Puget Adobe Photoshop, and PCMark 10 Productivity. System configuration for AMD Ryzen 5 PRO 7645: AMD AM5 Reference Motherboard, 32 GB (2X16GB) DDR5-6000, Samsung SSD 980 PRO 1TB NVMe, AMD Radeon graphics (driver version: 31.0.14040.3), AMD Wraith Spire Cooler, Windows® 11 Pro. System configuration for Intel Core i5-13400: MSI MS-7D30 motherboard, 32 GB (2X16GB) DDR5-6000, Samsung SSD 980 PRO 1TB NVMe, Intel(R) UHD Graphics 770 (driver: 31.0.101.4314), Windows 11 Pro, Intel Laminar RH1 cooler (stock). System manufacturers may vary configurations, yielding different results. **RPL-52**
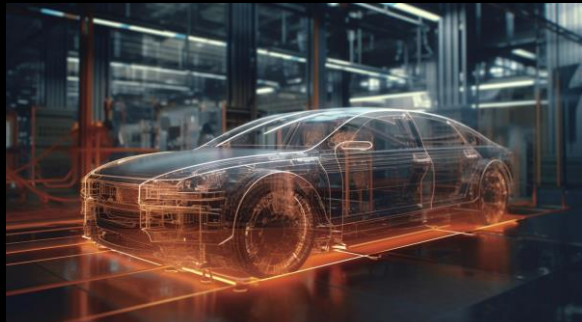
AMD

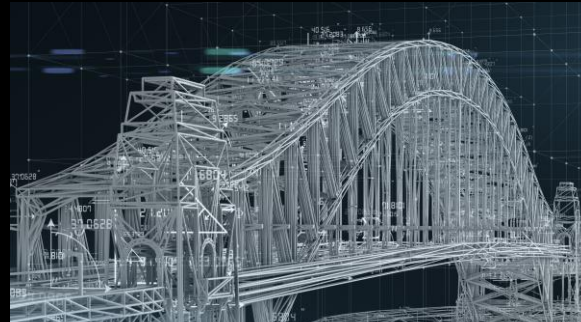# Ready to address evolving demands

Virtual production
standard

projected to reach
18.2% CAGR from 2023 to 2032

Automotive simulation
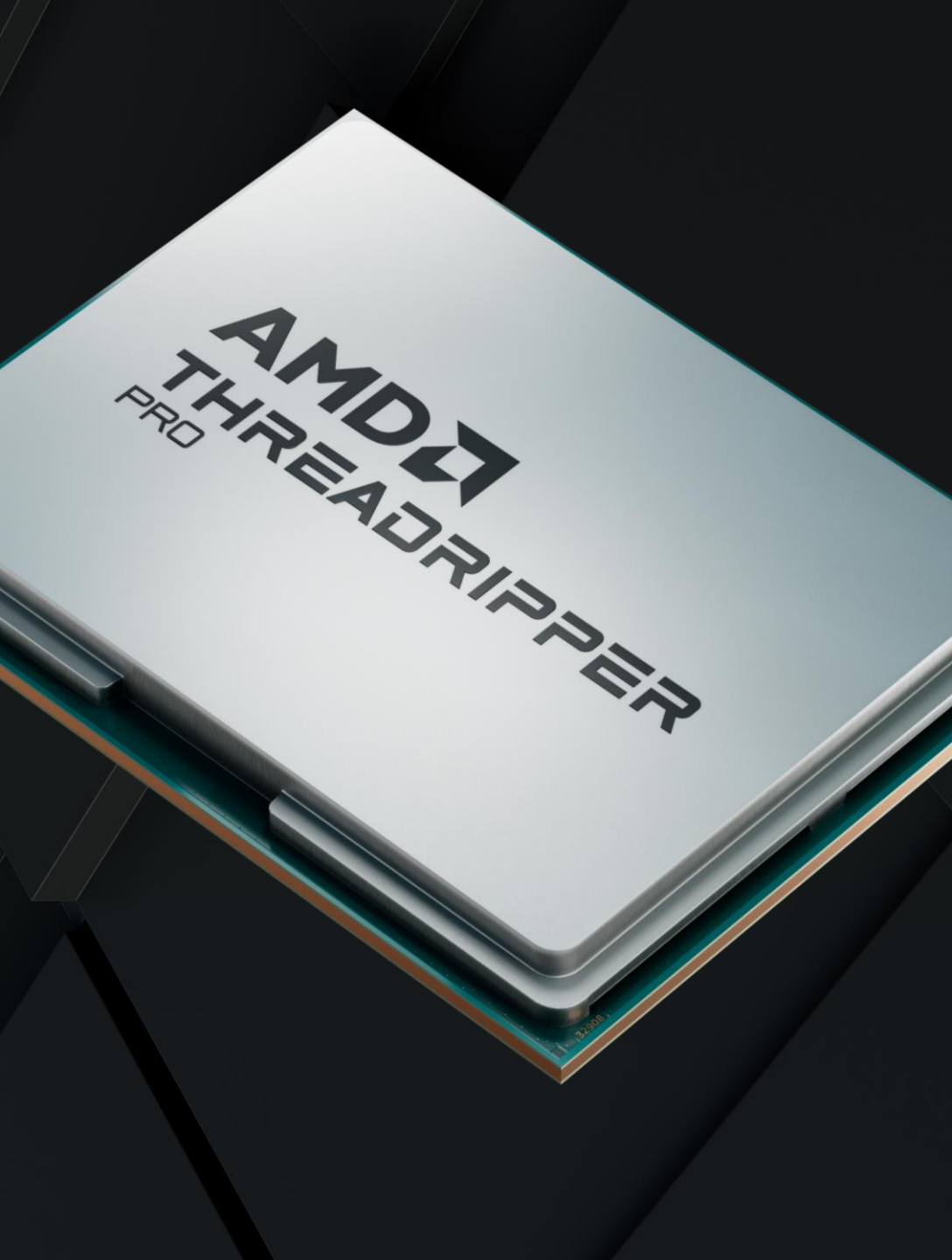expansion

projected to reach
11.1% CAGR from 2023 to 2032

Aging infrastructure
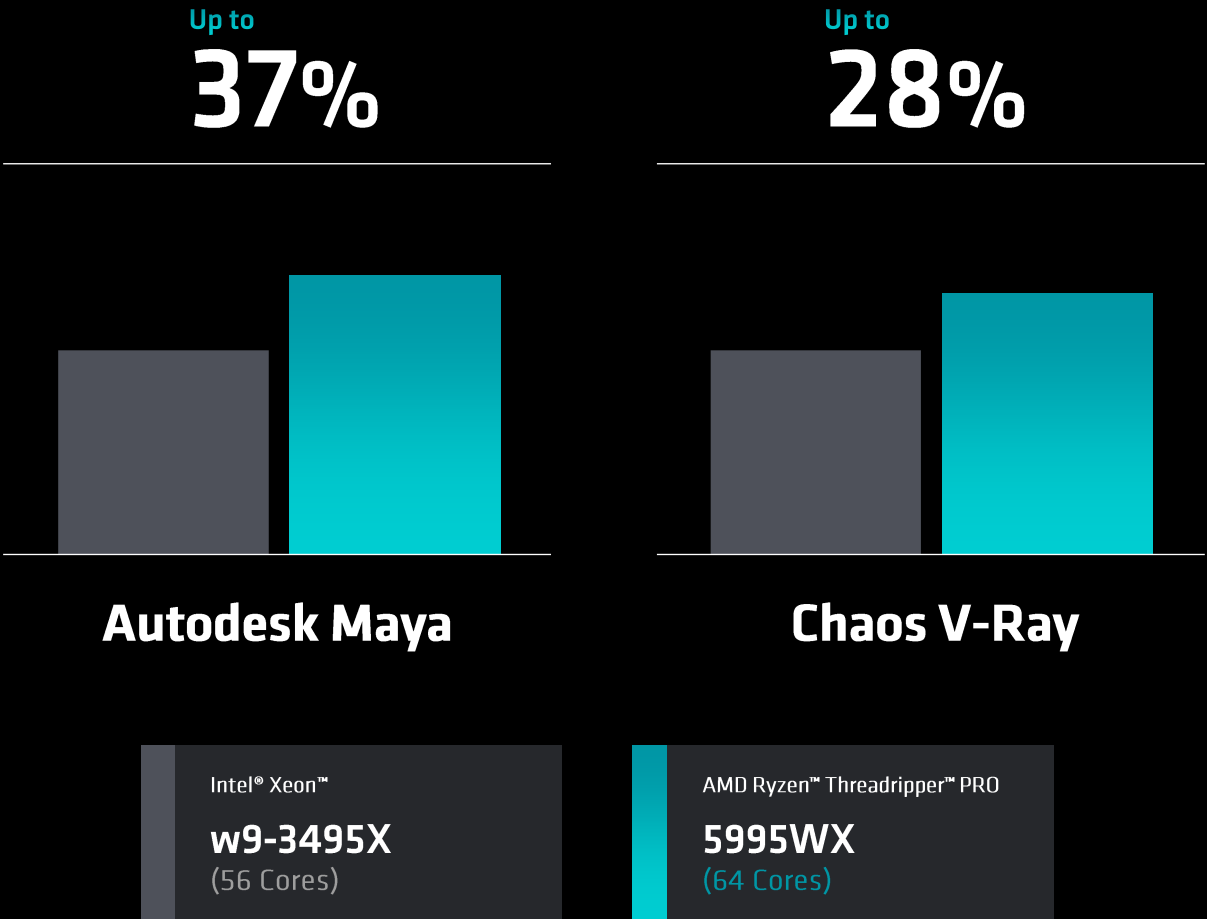revamp

projected to reach
10.2% CAGR from 2023 to 2032

Artificial intelligence
adoption

projected to reach
19% CAGR from 2023 to 2032

AMD

World class creative professionals
rely on AMD Ryzen™ Threadripper

ASTON MARTIN

BINYAN

DREAMWORKS

WULLIE.CO

EA™

EPIC GAMES

FOX SPORTS

Goldman Sachs

Industrial Light & Magic

PREDATOR CYCLING

SONOS

Over **1,000 customer wins** and growing

*Based on internal AMD analysis

4
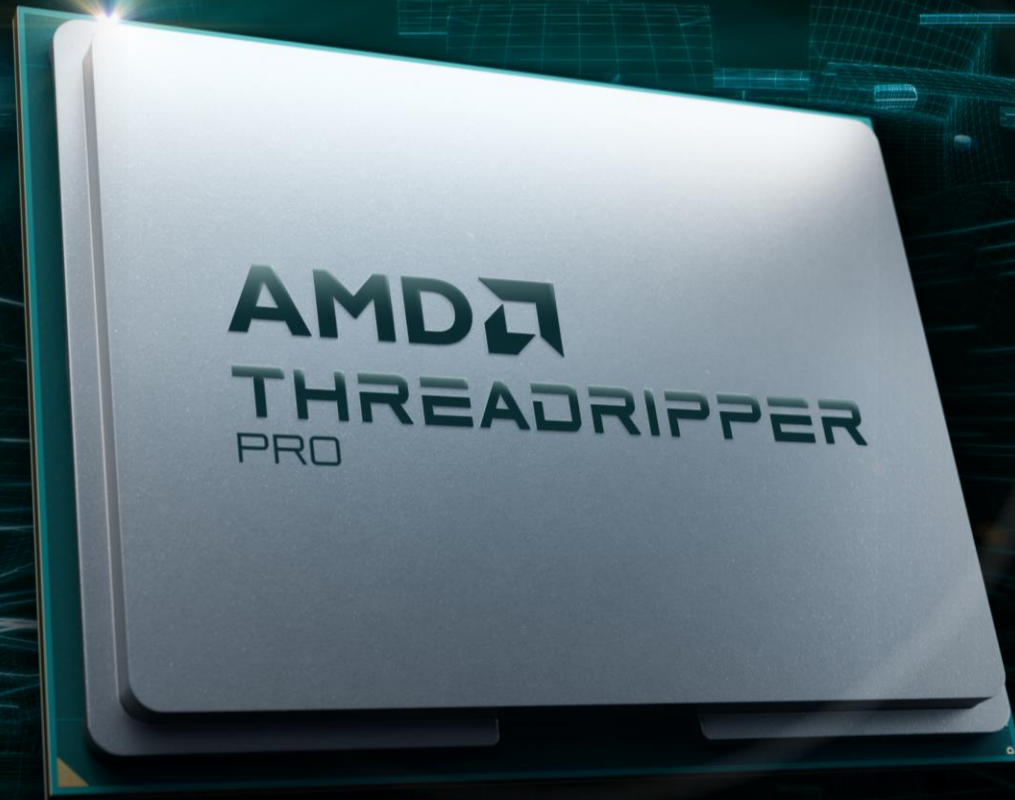
The fastest workstation processors in the world
are about to get even faster

*See endnote CGP-45

AMD Ryzen™ Threadripper™ PRO 7000 WX-Series
Generational comparison

	AMD Ryzen™ Threadripper™ PRO **5000** Series	AMD Ryzen™ Threadripper™ PRO **7000 WX**-Series	**Benefit**
Architecture	"Zen 3"	**"Zen 4"**	Improved power efficiency and overall performance
Cores / threads	Up to 64C/128T	**Up to 96C/192T**	Accelerated multithreaded workflows and multitasking
Max boost frequency	Up to 4.5GHz	**Up to 5.3GHz**	Improved performance in lightly threaded applications
PCIe® generation	PCIe 4.0	**PCIe 5.0**	Next gen GPUs and high-speed storage
L3 cache	256MB Total	**384 MB Total**	Faster, more responsive computing

See endnote GD-150

AMD

AMD Ryzen™ Threadripper™ PRO 7000 WX-Series
Generational comparison

5000 WX-Series	Cores/Threads	Frequency (Boost*/Base)	TDP
n/a			
5995WX	64 / 128	Up to 4.5 / 2.7 GHz	280W
5975WX	32 / 64	Up to 4.5 / 3.6 GHz	280W
5965WX	24 / 48	Up to 4.5 / 3.8 GHz	280W
5955WX	16 / 32	Up to 4.5 / 4.0 GHz	280W
5945WX	12 / 24	Up to 4.5 / 4.1 GHz	280W

7000 WX-Series	Cores/Threads	Frequency (Boost*/Base)	TDP
7995WX	96 / 192	Up to 5.1 / 2.5 GHz	350W
7985WX	64 / 128	Up to 5.1 / 3.2 GHz	350W
7975WX	32 / 64	Up to 5.3 / 4.0 GHz	350W
7965WX	24 / 48	Up to 5.3 / 4.2 GHz	350W
7955WX	16 / 32	Up to 5.3 / 4.5 GHz	350W
7945WX	12 / 24	Up to 5.3 / 4.7 GHz	350W

See endnote GD-150

AMD
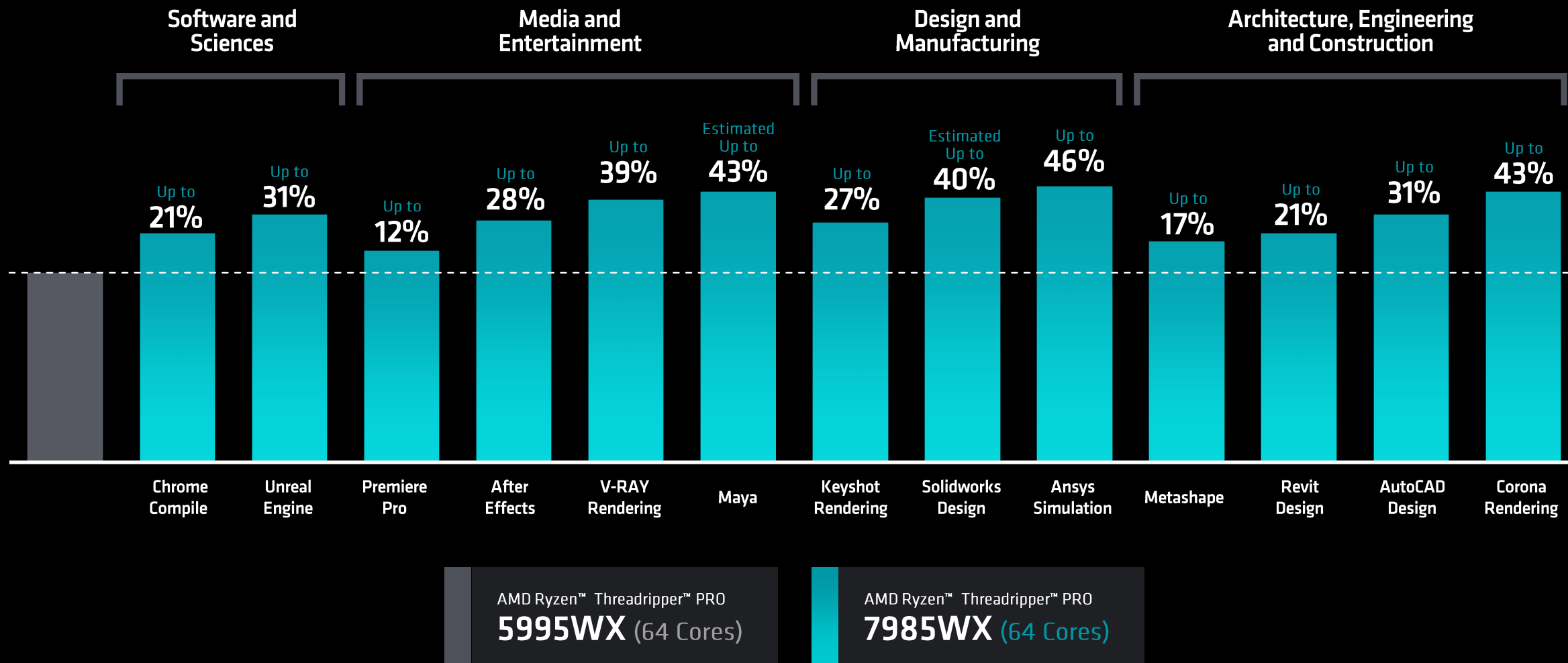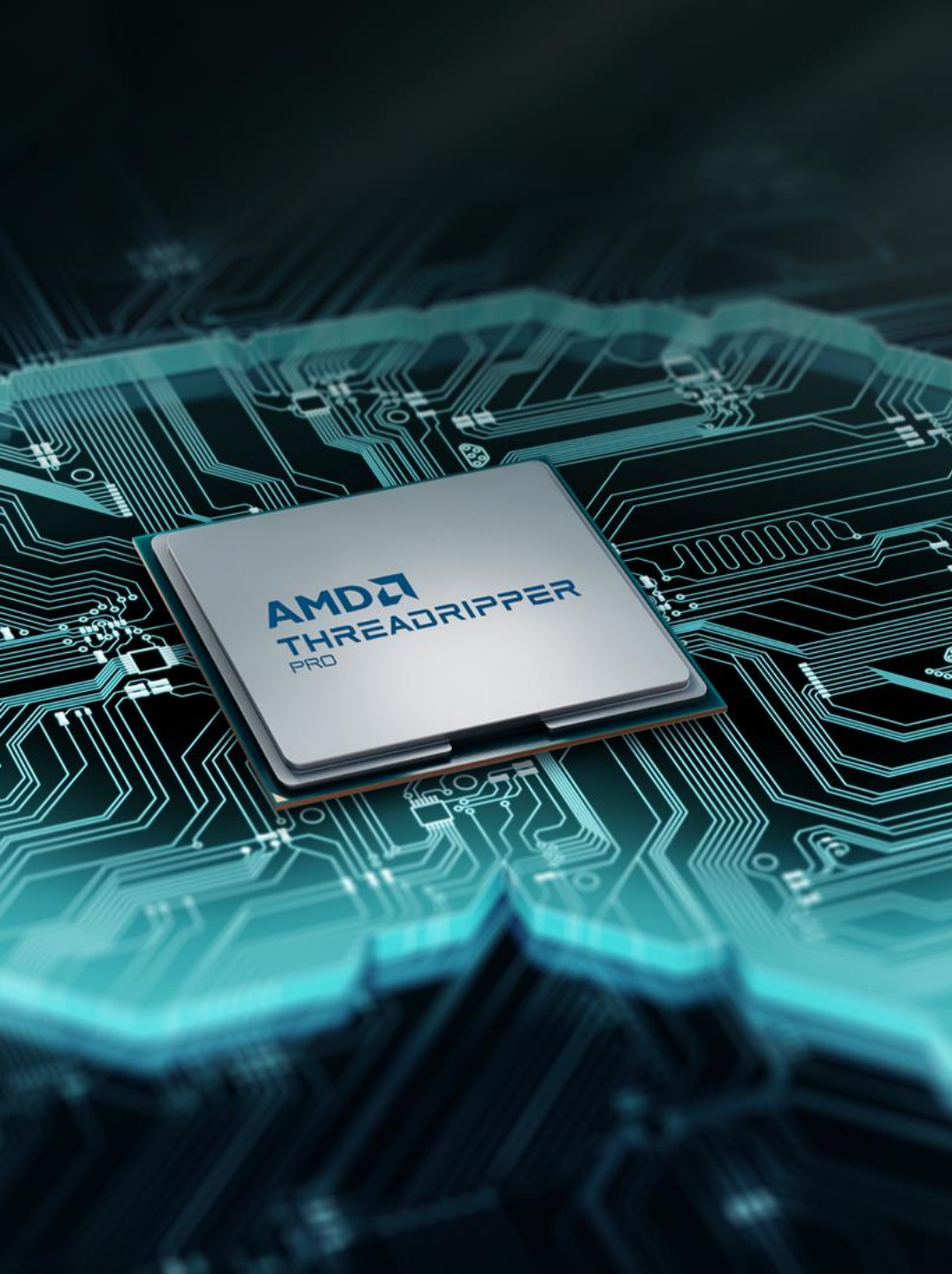
128 PCIe® 5.0 lanes
Ideal platform for **AI development**

✔ Advanced multi-GPU configurations

✔ Optimize and refine **AI algorithms** prior to scaling in the cloud

✔ Enables edge-based **AI training and inference**

AMD PRO Technologies

> ## AMD PRO Security
> Layers of built-in security technology to help protect your sensitive data.

> ## AMD PRO Manageability
> For simplified deployment and management that is compatible with your current infrastructure.

> ## AMD PRO Business Ready
> 18 months of planned software stability brings peace of mind. 24 months of planned availability for a stable enterprise.

Workstation performance drivers

Software and sciences

Common Workloads	Performance Drivers
Software Compiling	●●
AI Training	●●●●
Oil & Gas Exploration	●●

Media and entertainment

Common Workloads	Performance Drivers
Virtual Production	●●●
Post-Production	●●●
Rendering	
VFX Simulation	●●●
3D Modeling	●

Design and manufacturing

Common Workloads	Performance Drivers
CNC Optimization	●●
Generative Design	●●
Rendering	●●●
Simulation	●●●●
3D Modeling	●

Architecture, engineering and construction

Common Workloads	Performance Drivers
Rendering	●●●
Reality Capture	●●
3D Modeling	●
Virtual Reality	●

● CPU Clock Speed/IPC   ● CPU Core Count   ● Memory Bandwidth   ● Platform Expandability

AMD

Unrivaled full spectrum performance for peak productivity and multitasking

See endnote SPP-16, SPP-17, SPP-18, SPP-19

Up to **38%** — Autodesk AutoCAD

Up to **43%** — Dassault Solidworks

Up to **92%** — Ansys Mechanical

Up to **123%** — Chaos V-Ray

Lightly-threaded foreground tasks ← Simultaneously **tackle** → **Multi-threaded** background tasks

Intel® Xeon™
w9-3495X
(56 Cores)

AMD Ryzen™ Threadripper™ PRO
7995WX
(96 Cores)

AMD Ryzen™ Threadripper™ PRO
7985WX
(64 Cores)
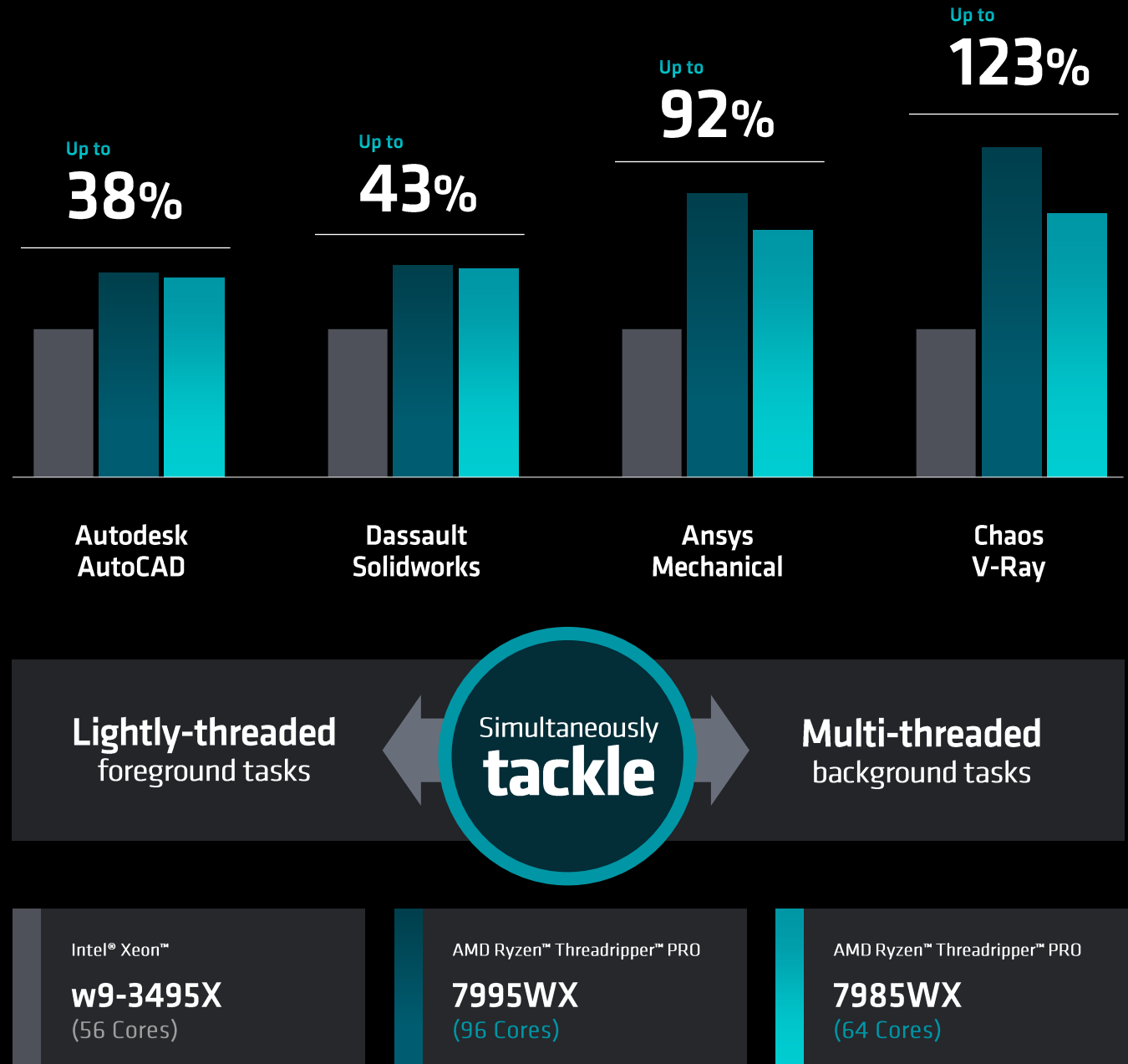
AMD Ryzen™ Threadripper™ PRO 7000 WX-Series
Competitive comparison

Architecture	Intel® Xeon™ W-3400 Series	AMD Ryzen™ Threadripper™ PRO 7000 WX-Series
Max Cores / Threads	56 / 112	96 / 192
Max Boost / Turbo Freq.	Up to 4.8GHz	Up to 5.3GHz
L3 Cache	Up to 105MB	Up to 384MB
PCIe® 5.0 Lanes	112	128
Enterprise Class Feature Set	Included	Included

See endnote GD-150

AMD

Software and **sciences**

Industry trends

- Increased demand for AI deployment and software development

- Software compilation is a multithreaded process

- AI/ML training can be accelerated on multiple GPUs

- Large datasets comprised of sensitive IP are common

7000 WX-Series benefits

- Develop and compile software rapidly

- Massive memory capacity and bandwidth for large datasets

- Platform supports multiple GPUs for pre-scale AI/ML training

- AMD PRO security helps keep sensitive data secure

AMD Ryzen™ Threadripper™ PRO

Software and sciences

Up to
28% faster

291,902
seconds

228,000
seconds
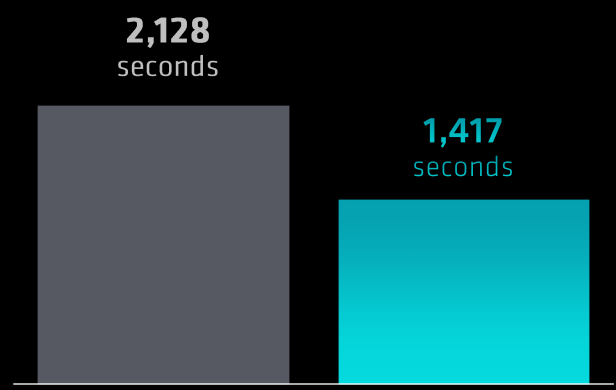
Chromium
Compile (seconds, lower is better)

Up to
50% faster

2,128
seconds

1,417
seconds

Unreal Engine
Compile (seconds, lower is better)

Intel® Xeon™
w9-3495X
(56 Cores)

AMD Ryzen™ Threadripper™ PRO
7985WX
(64 Cores)

See endnote SPP-05

Media and **entertainment**

Industry trends

- Virtual production is taking over the industry driving the need for high compute capability on-set

- More compute capability enables greater adoption of VFX simulation tools

- Improved look development tools drive need for greater multithreaded capability

7000 WX-Series benefits

- More creative iterations
- Enhanced multi-tasking
- Full spectrum performance
- Leading CPU core counts
- Unmatched expandability for AI training and GPU compute

Design and manufacturing

Industry trends

- The use of generative design is expected to grow 15% from 2021-2026

- Global 3D CAD software market size is estimated to reach USD 15.41 billion by 2028, representing growth of 6.4%

7000 WX-Series benefits

- Leading core counts for multithreaded tasks

- Improved design insight through faster simulation iterations

- Optimized multi-tasking

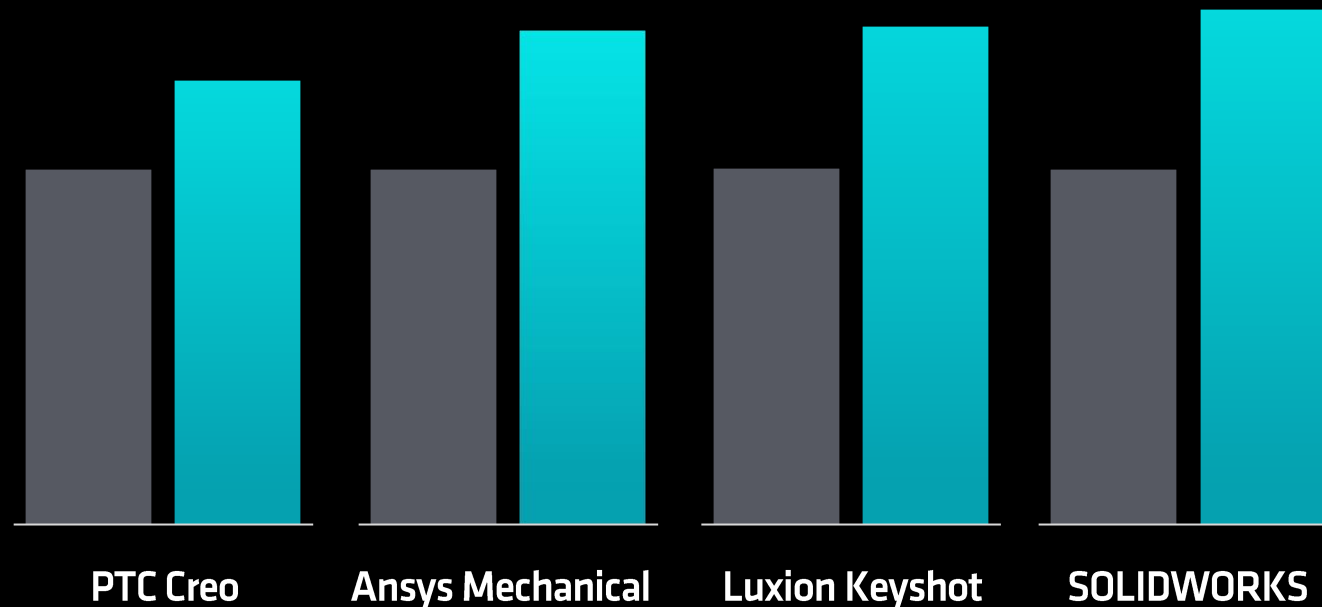- Improved CPU frequency for more seamless 3D modeling

Architecture, engineering and **construction**

Industry trends

- Aging commercial infrastructure is driving demand for new construction projects

- Digital twins in AEC is driving the need for incremental compute capability beyond traditional 3D modeling and design

7000 WX-Series benefits

- Full spectrum performance

- Seamless 3D modeling and design experience

- Rapidly visualize alternate design ideas

- Massive memory capacity for reality capture

- AMD PRO technologies to help with data security and manageability

Unrivaled workstation performance
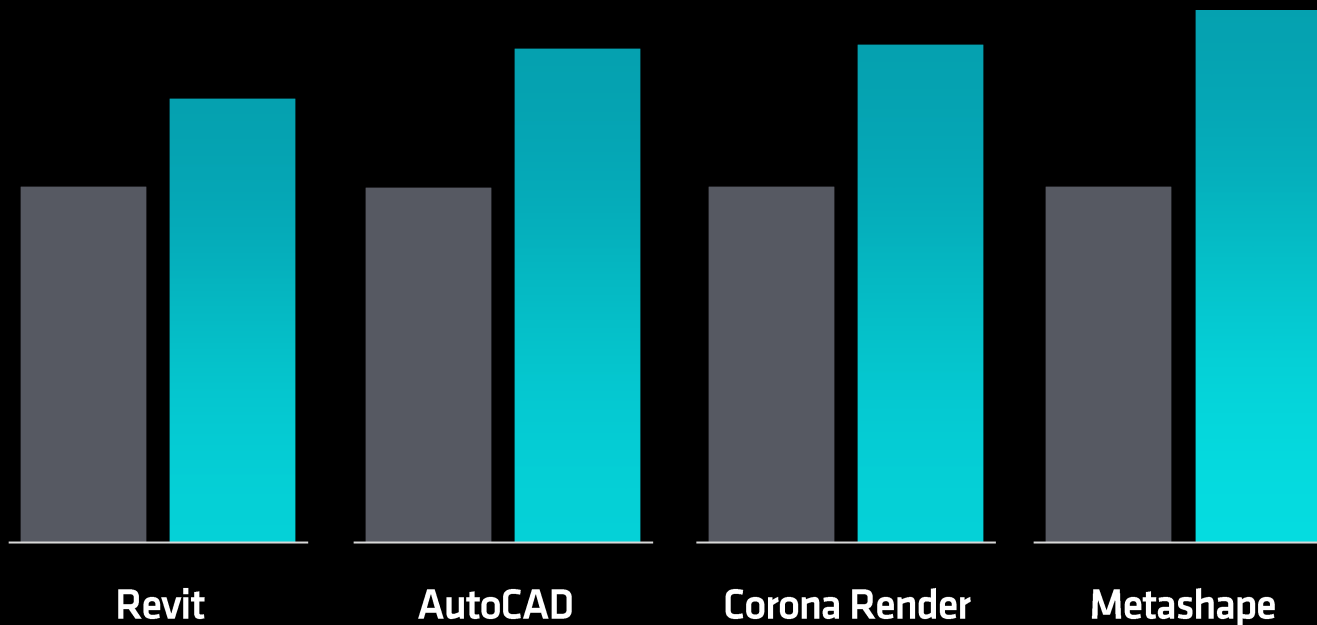## across entire product stack

Software and sciences | Media and entertainment | Architecture, engineering, and construction | Design and manufacturing

Chromium Compile · Unreal Engine · Autodesk Maya (Estimated) · Chaos V-RAY · Adobe After Effects · Adobe Premiere Pro · Autodesk Revit · Autodesk AutoCAD · Corona Render · Metashape · Solidworks (Estimated) · PTC Creo (Estimated) · Ansys Mechanical · Keyshot

7995WX (96 Cores)
Compared to Intel w9-3495X (56 Core)

7985WX (64 Cores)
Compared to Intel w9-3495X (56 Core)

7975WX (32 Cores)
Compared to Intel w9-3475X (36 Core)

7965WX (24 Cores)
Compared to Intel w7-3455X (24 Core)

7955WX (16 Cores)
Compared to Intel w5-3435X (16 Core)

7945WX (12 Cores)
Compared to Intel w5-3425X (12 Core)

See endnote SPP-05, SPP-06, SPP-07, SPP-10, SPP-11

23 | AMD

Optimizations and certifications

Media and Entertainment

Application	Certified	Optimized
Adobe After Effects	✓	✓
Adobe Illustrator	✓	
Adobe InDesign	✓	
Adobe Lightroom	✓	
Adobe Media Encoder	✓	
Adobe Photoshop	✓	
Adobe Premiere Pro	✓	✓
Adobe Substance		✓
AJA KONA	✓	
Autodesk 3ds Max	✓	
Autodesk Arnold		✓
Autodesk Flame		
Autodesk Maya	✓	✓
Avid Media Composer	✓	✓
BMD DaVinci Resolve	✓	✓
Blender		✓
Boris FX		✓
Embree		
Filmworkz		✓
Foundry Nuke	✓	
Pixar Renderman		✓
Pixologic Zbrush		✓
SideFX Houdini		✓
Steinberg Cubase		✓
Vizrt Digital Media	✓	
Zero Density	✓	

Design and Manufacturing

Application	Certified	Optimized
Altair AcuSolve		
Altair Feko		
Altair HyperWorks	✓	✓
Altair Inspire		
Altair OptiStruct		✓
Ansys CFX	✓	✓
Ansys Discovery	✓	
Ansys Fluent	✓	✓
Ansys HFSS	✓	✓
Ansys LS-DYNA	✓	
Ansys Mechanical	✓	✓
Ansys SpaceClaim	✓	
Autodesk Alias	✓	
Autodesk Fusion 360	✓	✓
Autodesk HMSWorks		
Autodesk Inventor	✓	
Autodesk VRED	✓	
COMSOL		✓
Dassault 3DEXPERIENCE	✓	
Dassault Abaqus		
Dassault CATIA	✓	
Dassault CST Studio		
Dassault ICEM Surf	✓	
Dassault PowerFLOW		
Dassault SOLIDWORKS	✓	✓
SOLIDWORKS Plastics	✓	✓

Application	Certified	Optimized
SOLIDWORKS Simulation		
SOLIDWORKS Visualize		
Dassault Spatial		
Dassault Stellar		
Dassault XFlow		
HCL CAMWorks		✓
Hexagon Actran		
Hexagon BricsCAD		
Apex Generative Design		
Hexagon NASTRAN		✓
Luxion KeyShot		✓
MathWorks MATLAB		✓
PTC Creo	✓	✓
Rhino3D		✓
Siemens NX	✓	
Siemens Parasolid		
Siemens Simcenter		
Siemens Solid Edge	✓	
Siemens STAR-CCM+		✓
Simerics-MP+		✓

Software and Sciences

Application	Certified	Optimized
Halliburton	✓	
Schlumberger Petrel	✓	
UE Shader Compiler		✓
UE Software Compiler		✓

Design and Manufacturing

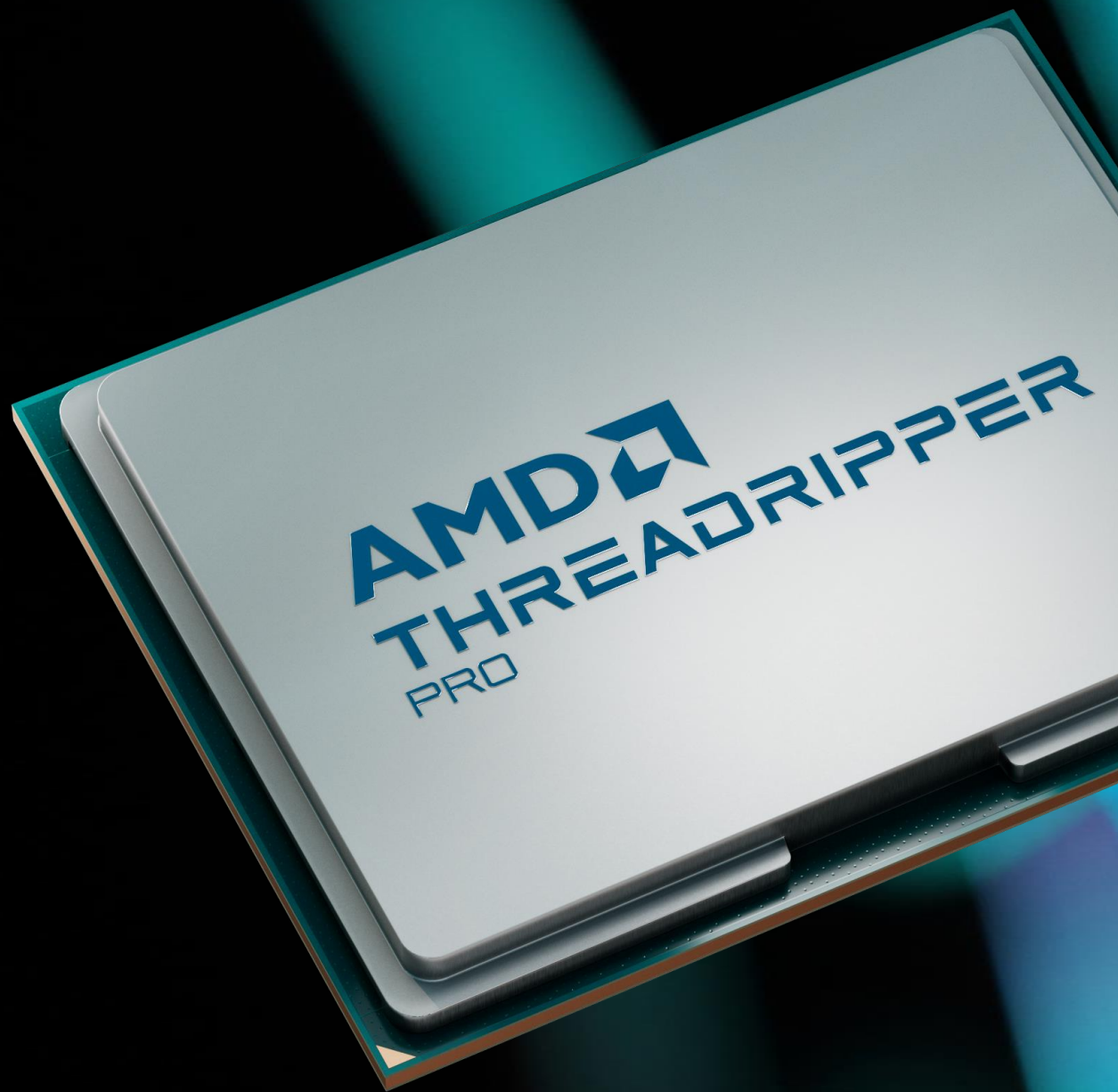| Application	Certified	Optimized
Agisoft Metashape		✓
Autodesk AutoCAD	✓	
Autodesk Revit		✓
Bentley MicroStation	✓	
Chaos V-Ray	✓	
Chief Architect		
Corona Renderer		✓
Epic Capturing Reality		✓
Esri ArcGIS	✓	
Leica Cyclone		✓
Nemetschek ALLPLAN	✓	
Vectorworks	✓	

Broad ecosystem of partners

Worldwide Partners

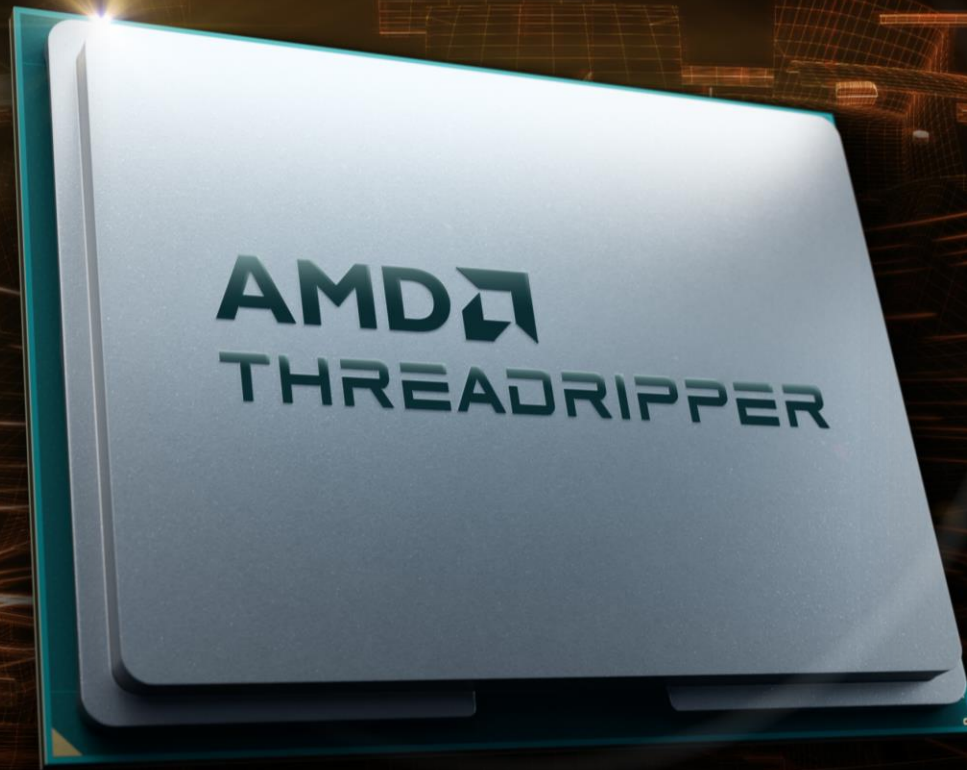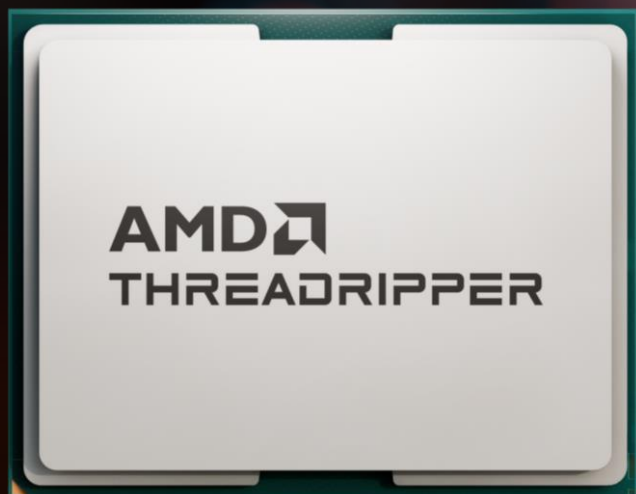

Regional Partners

AMD

AMD Ryzen™
Threadripper™ PRO
7000 WX-Series

- Leadership performance
- Ultimate professional platform
- Built for professionals

**Design. Build. Advance.
On the ultimate workstation processor.**

AMD

AMD Ryzen™ Threadripper™
7000 Series

For the ultimate prosumers that need the ultimate multiprocessing performance, but don't need PRO manageability, eight-channel memory, or 128 PCIe® 5.0 lanes.

*See endnotes: SPP-01, GD-26

Chipset	**PRO** Platform	**HEDT** Platform
PRO Manageability Features	✔	✘
Memory Configuration	**8-Channel** overclockable RDIMM	**4-Channel** overclockable RDIMM
PCIe® Lanes (Total/Usable)	148/**144** (w/ up to 128 PCIe® 5.0)	92/**88** (w/ up to 48 PCIe® 5.0)
Overclocking Enabled	✔ (not enabled on OEM systems)	✔
Processor Support	**PRO** only	**PRO** and **HEDT**

AMD THREADRIPPER **WRX90** SOCKET sTR5

AMD THREADRIPPER PRO **TRX50** SOCKET sTR5

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Don't waste it

save up to
27 minutes
for every hour of productivity
vs. the competition

Based on average performance speedup of a 64 core Threadripper 7000 Series processor in a 3D modeling and rendering workflow. See endnote SPP-22