AMD RYZEN

AMD RYZEN™ 7000 SERIES PROCESSORS

RODGER GREEN

AUGUST 2023

AMD
together we advance_

AMD FOR BUSINESS

AMD RYZEN™ PRO 7040 SERIES PROCESSORS

LAPTOPS

WORKSTATIONS

BUSINESSES ARE LOOKING FOR SOLUTIONS

AMD RYZEN™ PRO PROCESSORS ADDRESS 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

INTRODUCING

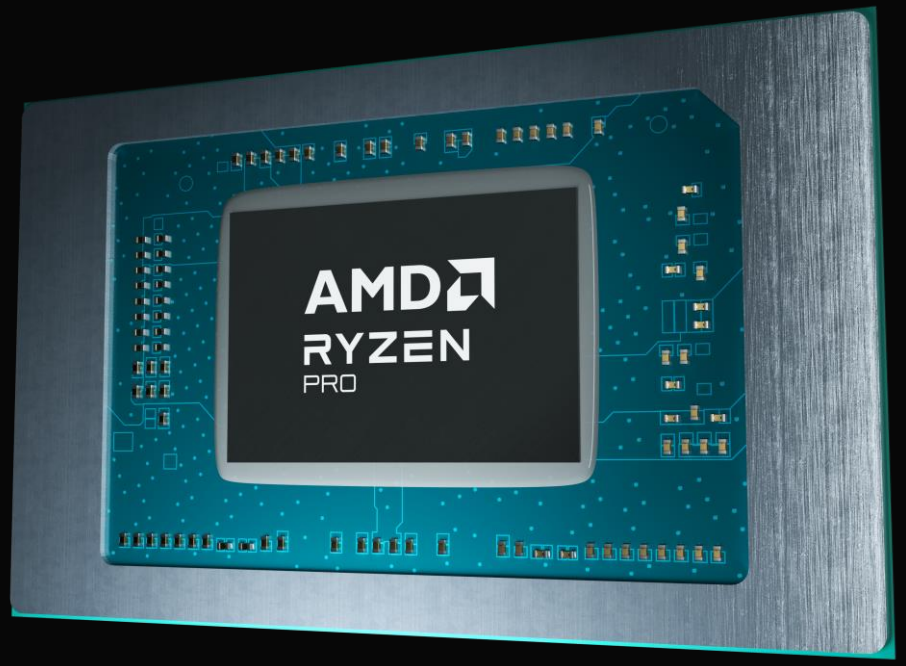
AMD RYZEN™ PRO 7040 SERIES PROCESSORS

‘ZEN 4’ — WORLD’S FASTEST AND MOST ADVANCED x86 BUSINESS PROCESSOR

4nm — ULTRA POWER-EFFICIENT BUSINESS LAPTOP PROCESSORS

AMD RDNA 3 — WORLD’S MOST POWERFUL INTEGRATED GRAPHICS

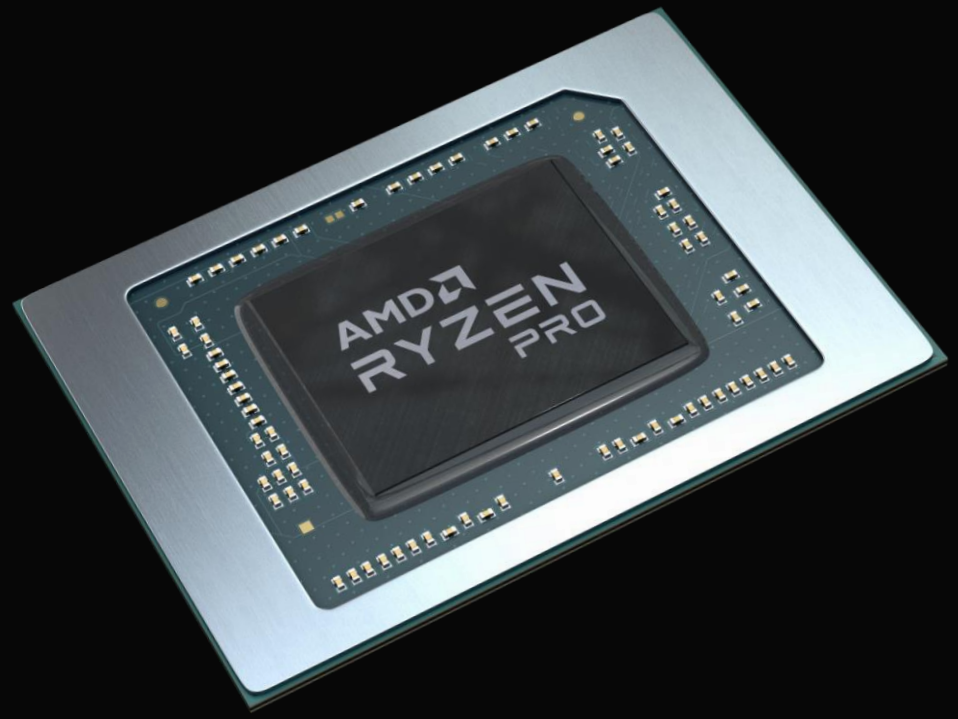
AMD RYZEN AI — WORLD’S FIRST INTEGRATED AI ENGINE IN AN X86 PROCESSOR



DESIGNED FOR UNCOMPROMISING INNOVATION, SPEED AND POWER

AMD RYZEN™ PRO 7040 Series

THE WORLD'S FASTEST ULTRATHIN PROCESSOR FOR PCS



Ryzen™ 9 PRO 7940HS

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

Ryzen™ 7 PRO 7840U

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

Ryzen™ 7 PRO 7840HS

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

Ryzen™ 5 PRO 7640U

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

FEATURING RYZEN™ AI

On select models

Ryzen™ 5 PRO 7640HS

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

Ryzen™ 5 PRO 7540U

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

AMD RYZEN™ PRO 7040 SERIES PROCESSORS

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	AMD's most powerful integrated graphics ever with up to 19% faster graphics performance
EXPERIENCES	Auto background Noise Suppression Power Slider Optimizations	NEW Integrated Ryzen™ AI *Select Models	Experience AI every day on select business laptops with incredible speed, battery life and quiet operation
AMD PRO TECHNOLOGIES	Microsoft Pluton Security Processor AMD Manageability Processor	NEW Cloud-Based Remote Manageability	New remote manageability solution enables IT remote actions helping ensure compliance and protection

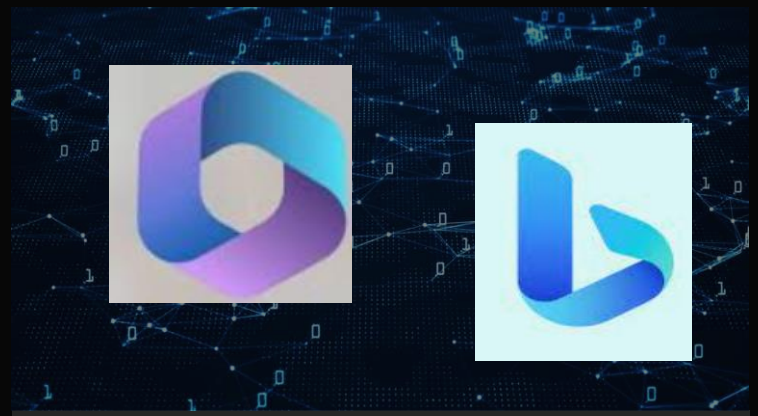
THE FUTURE STARTS NOW

FOR WINDOWS LAPTOPS
WITH AI TECHNOLOGY BUILT IN

Only with AMD RYZEN AI

UNLOCKING THE POWER OF AI

DEDICATED AI HARDWARE ON ENDPOINT SYSTEMS ENABLE A NEW ERA FOR PCS



Explosion of Generative AI

Bing > 100M users since AI launch

Microsoft use cases expanding rapidly

This is just the beginning !!

From Cloud to Hybrid

Cloud inferencing is costly for Gen-AI

ISVs need Client AI for Gen-AI features

Client AI makes Gen-AI features affordable

Enhanced Experiences

Client = Personalized, Fast

Reliable and Protected

"Generate insights from PPT that John forwarded me last week"

THE POWER OF AMD RYZEN™ AI

THE BENEFITS OF YOUR OWN PERSONAL AI PROCESSING HARDWARE ON YOUR AMD PC

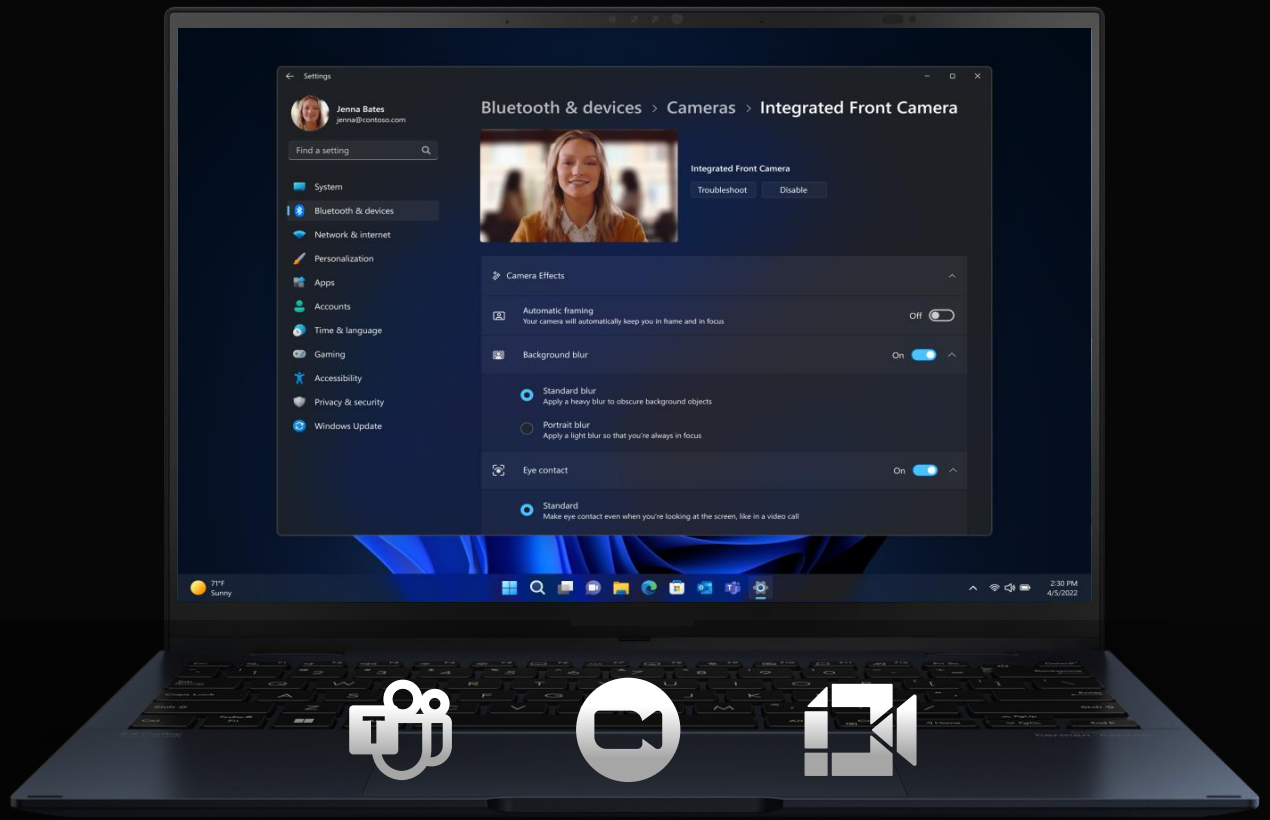
PERFORMANCE

SECURITY FEATURES

FUTURE COST

THE JOURNEY STARTS
WITH ADVANCED VIDEO COLLABORATION

Windows Studio Effects uses AMD Ryzen™ AI using the integrated camera



Works on All Video Conference Apps

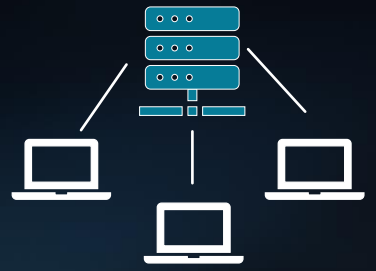
"If you're doing a Zoom call for work…you're looking at less than half the power with AMD Ryzen™ AI"

PCMAG.COM

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

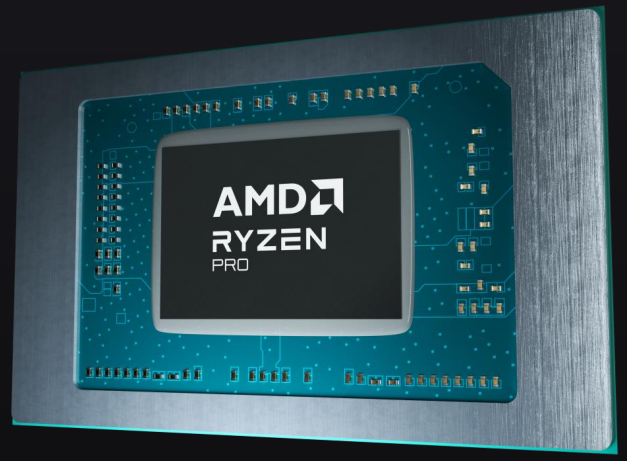
AVAILABLE ON EVERY AMD RYZEN™ PRO PROCESSOR

AMD PRO SECURITY

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

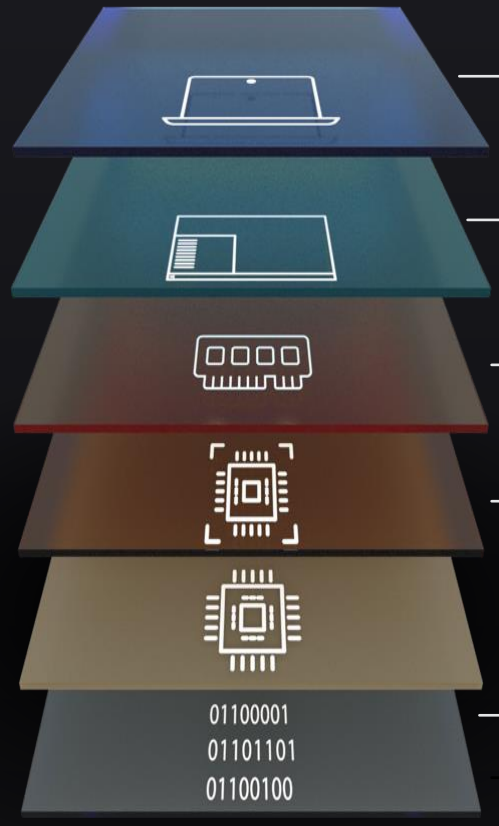
AMD RYZEN™ PRO 7040 SERIES

DELIVERING THE MOST MODERN SECURITY



HP WOLF SECURITY

Windows 11



HP SECURITY FEATURES
Wolf Security

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

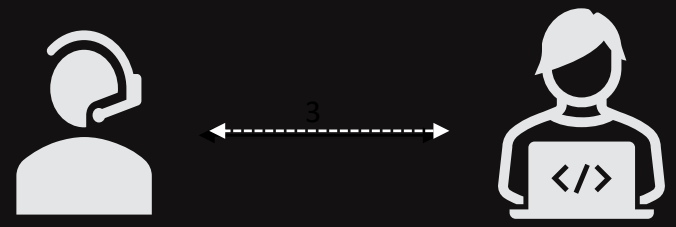
YOUR DATA

AMD Security Features
Partner Security Features

AMD PRO MANAGEABILITY

NEW BREAKTHROUGH REMOTE MANAGEABILITY SOLUTION

Remote actions IT can take with the new cloud manageability solution



- Remote access to systems on/off corporate network
- Enables control to apply patches and update software
- Ability to set wake-up times to better deploy scheduled updates
- Make necessary changes to BIOS
- View user's screen remotely to assist better
- Repair devices at scale

ALL REMOTE ACTIONS HELP ENSURE COMPLIANCE AND PROTECTION

2023 | ALL-NEW CONNECTED LAPTOP PLATFORM

USB | USB4 40 GBPS

PCI EXPRESS **PCI-E** | GEN4

DDR | LPDDR5 DDR5

WIFI | WI-FI 6E BT 5.3

HDMI® 2.1
HFR, FRL, DSC, HDR10+, VRR

DISPLAYPORT™ 2.0
DSC, UHBR10, Adaptive-Sync, HDR, USB-C™

UP TO
4 DISPLAY OUTPUTS

* Not all systems feature all capabilities. Check with system manufacturer for specific features and functions.

2023 AMD COMMERCIAL LAPTOP PORTFOLIO

POWERED BY AMD RYZEN™ PRO 7040 AND 7030 SERIES PROCESSORS

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

MOBILE WORKSTATION GROWTH

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

AVAILABLE IN SYSTEMS Q3 2023

AMD RYZEN™ PRO 7040 SERIES

"ZEN 4"

World's Fastest and most Advanced x86 Business Processor

4nm

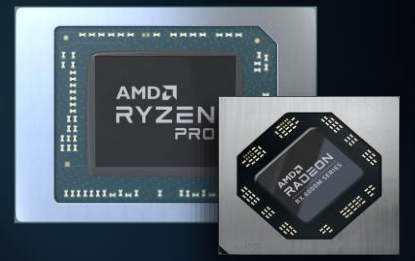
Incredible power efficiency for business laptop processor

AMD RDNA 3

World's most powerful integrated graphics

AMD RYZEN AI

World's first integrated AI engine in an x86 processor



CONNECTED PLATFORM

LPDDR5/DDR5, PCIE®4.0, USB4, Wi-Fi 6E

See endnotes: PHXP-37, PHX-3, GD-203

AMD

Thank You

Endnotes

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.**

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.**

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AMD Manageability Processor requires OEM enablement. Check with the system manufacturer prior to purchase. **GD-193.**

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

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.**

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