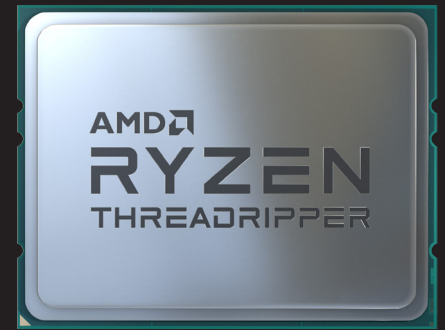




HOW TO SELL

# 3<sup>RD</sup> GEN AMD RYZEN™ THREADRIPPER™ PROCESSOR

RENDER TIME IRRELEVANT.



## KEY TAKEAWAYS

**Render, design, mix, edit, compose, model, and play.**

AMD Ryzen Threadripper means you never have to put productivity on hold. Render complex 3D scenes while you work, stream high-quality video while you game. Encode. Compile. Encrypt. Virtualize. It doesn't matter. An AMD Ryzen Threadripper can do more, faster, than ever before.

- 3rd Gen AMD Ryzen™ Threadripper™ processors are the world's most powerful desktop processors designed to empower digital creators<sup>1</sup>
- The new TRX40 desktop platform is the world's most powerful desktop platform
- Designed exclusively for the new TRX40 motherboards with Socket sTRX4
- First HEDT with PCIe® 4.0 for the highest bandwidth NVMe arrays
- Supercharged by the cool, quiet and efficient 7nm 'Zen 2' architecture.<sup>2</sup>

**HOLLYWOOD BATTLE PROVEN: The CPU of choice for critical VFX scenes in Terminator: Dark Fate.**

THE WORLD'S MOST POWERFUL DESKTOP PROCESSOR<sup>3</sup>

### AMD RYZEN™ THREADRIPPER™ 3970X PROCESSOR

32 Cores 64 Threads	Up To 4.5 Ghz Max Boost <sup>4</sup> 3.7 Ghz Base Clock	280W TDP	144MB Total Cache
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### AMD RYZEN™ THREADRIPPER™ 3960X PROCESSOR

24 Cores 48 Threads	Up To 4.5 Ghz Max Boost <sup>4</sup> 3.8 Ghz Base Clock	280W TDP	140MB Total Cache
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## WHO IS IT FOR?

**Designed for Artists, Editors, and Engineers.**

The 3rd Generation AMD Ryzen™ Threadripper™ 3970X offers up to 32 cores and 64 threads for those that demand the best. Digital creators are empowered by sophisticated machine intelligence and improved architecture. Mega-task multiple applications at the same time without impacting responsiveness.



**SERIOUS 3D RAYTRACING/RENDERING**  
3D/VR ANIMATION & SIMULATION  
CHARACTER MODELING



**3D RENDERING**  
VIDEO ENCODING  
SOFTWARE DEV/COMPILING



**CINEMATIC VIDEO EDITING**  
CINEMATIC VFX



**DIGITAL WORKFLOW MANAGEMENT**  
HOME/SMB VIRTUALIZATION



**MASSIVE VIRTUALIZATION**



**SIMULTANEOUS GAMING &  
GAME STREAMING**





## SELL IT IN 60 SECONDS

### THE WORLD'S MOST POWERFUL DESKTOP PROCESSORS.

The 3rd Gen Ryzen™ Threadripper™ is the fastest desktop processor ever created. Period.<sup>1</sup> The most cores. The highest bandwidth. The most memory. If all you want to do is game, get a Ryzen™. If you want to stream, render, encode, and deliver, get a Threadripper™.

Experience game levels as you develop them, test new content in real-time, or just game for the fun of it while your PC compiles and renders. AMD Ryzen™ Threadripper™ Processors are so powerful, you don't need to stop producing while you play.

The TRX40 platform is the world's most powerful desktop platform, the first HEDT with industry leading PCIe® 4.0 connectivity to deliver bleeding-edge bandwidth, efficiency, and expandability.

- 88 total/72 usable PCIe® 4.0 lanes to allow more connectivity for creators
- Up to 144MB of combined cache for rapid access to large data sets
- With the most memory channels you can get on desktop<sup>5</sup>, the AMD Ryzen™ Threadripper™ Processor can support DDR4 ECC (Error Correcting Mode) Memory

## 3<sup>RD</sup> GENERATION AMD RYZEN™ THREADRIPPER™ TECHNOLOGIES

AMD  
Socket sTRX4

# TRX40

The new TRX40 platform represents the pinnacle of desktop computing featuring exclusive PCIe 4.0® Connectivity. The scalable AMD TRX40 chipset offers unprecedented expansion for serious multi-GPU and NVMe arrays thanks to bleeding-edge PCIe® 4.0 connectivity, exclusive to this platform in high-end desktop.

AMD

# RYZEN Master

Unlock ultimate control over your AMD Ryzen™ powered system for personalized overclocking and efficiency.<sup>6,7</sup>



### PRECISION BOOST 2

Gracefully raises processor frequencies for supercharged performance on any number of CPU cores.



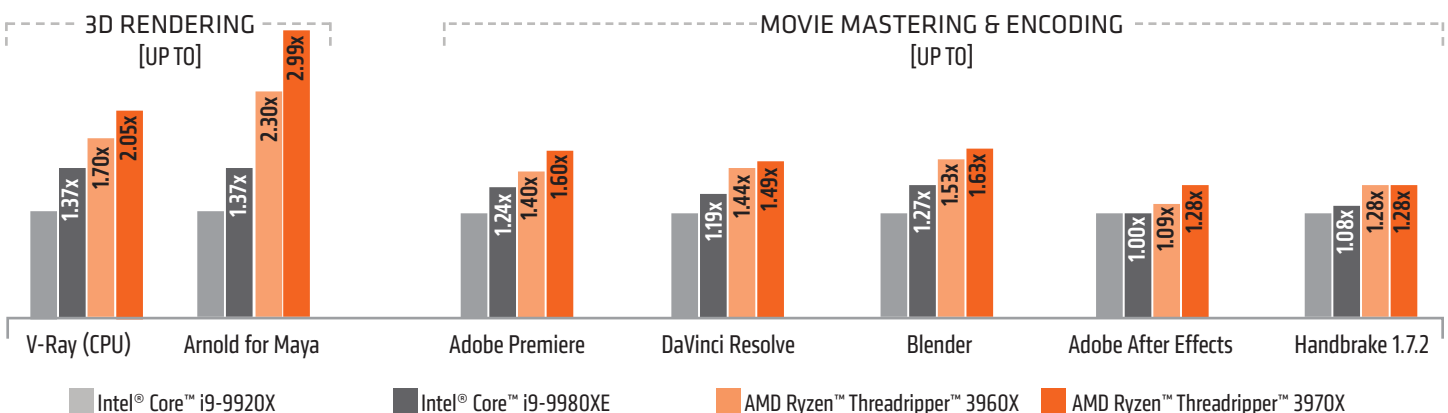
### PRECISION BOOST OVERDRIVE (PBO)<sup>6,7,8</sup>

Precision Boost Overdrive makes automatic overclocking a reality with increased clockspeed and power limits at the touch of a button.

## CREATION BENCHMARKS

(Results may vary, see endnotes: CPK-11, CPK-12)<sup>9,10</sup>

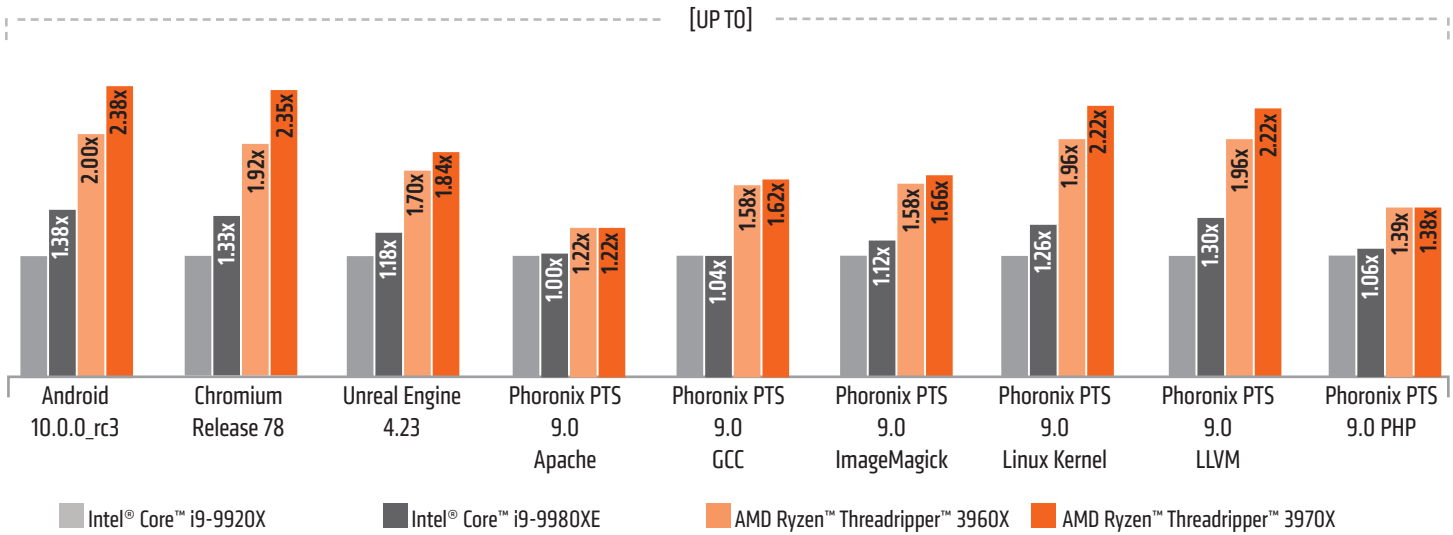
### LEADERSHIP PERFORMANCE FOR CREATORS & INNOVATORS



## COMPILER PERFORMANCE

(Results may vary, see endnotes: CPK-20)<sup>11</sup>

### SAVING DEVELOPERS FROM TOO MUCH FREE TIME



For more information, please visit [www.AMD.com/partner](http://www.AMD.com/partner)  
Your source for tools, training, news, reviews, and much more!

To find out more about AMD Ryzen Threadripper Processors, please visit [www.AMD.com](http://www.AMD.com)

1. Testing by AMD performance labs on 10/07/2019 comparing an AMD Ryzen™ Threadripper™ 3970X and AMD Ryzen™ Threadripper™ 3960X vs. Intel® Core™ i9-9980XE in the Cinebench R20 nT benchmark test. Results may vary. CPK-02

2. The information contained herein is for informational purposes only, and is subject to change without notice. "Zen", "Zen+" and "Zen 2" are code names for AMD architectures, and are not product names. GD-122

3. Testing by AMD performance labs on 10/07/2019 comparing an AMD Ryzen™ Threadripper™ 3970X and Intel® Core™ i9-9980XE in the Cinebench R20 nT benchmark test. Results may vary. CPK-01

4. 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

5. AMD Ryzen Threadripper processors all have 64 PCIe lanes and 4-channel memory. The highest-end competing processor, the Core i9-7980XE, has 44 PCIe lanes and 4-channel memory. Specifications from ark.intel.com and AMD.com. RZN-76

6. AMD product warranty does not cover damages caused by overclocking, even when overclocking is enabled via AMD hardware. GD-26

7. Overclocking AMD processors, including without limitation, altering clock frequencies / multipliers or memory timing / voltage to operate beyond their stock specifications will void any applicable AMD product warranty, even when such overclocking is enabled via AMD hardware and/or software. This may also void warranties offered by the system manufacturer or retailer. Users assume all risks and liabilities that may arise out of overclocking AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106

8. Precision Boost Overdrive requires an AMD Ryzen Threadripper, AMD Ryzen 5 3000, AMD Ryzen 7 3000, or AMD Ryzen 9 3000 Series processor and a motherboard compatible with one or more of these processors. Because Precision Boost Overdrive enables operation of the processor outside of specifications and in excess of factory settings, use of the feature invalidates the AMD product warranty and may also void warranties offered by the system manufacturer or retailer. GD-135

9. CPK-11: Testing by AMD performance labs on 10/11/2019 using an AMD Ryzen™ Threadripper™ 3970X processor, Intel® Core™ i9-9980XE and Intel® Core™ i9-9920X. Results may vary. CPK-11

10. CPK-12: Testing by AMD performance labs on 10/11/2019 using an AMD Ryzen™ Threadripper™ 3960X processor, Intel® Core™ i9-9980XE and Intel® Core™ i9-9920X. Results may vary. CPK-12

11. CPK-20: Testing by AMD performance labs on 10/11/2019 using an AMD Ryzen™ Threadripper™ 3960X processor, AMD Ryzen™ Threadripper™ 3970X processor, Intel® Core™ i9-9980XE and Intel Core i9-9920X. Chromium and Unreal Engine compiled in Windows® 10 with Ninja Compiler using Visual Studio 2017 header files. Android 10 compiled according to <https://source.android.com/setup/build/initializing>. Phoronix PTS OpenBenchmarking.org results obtained via CentOS 7. Results may vary. CPK-20

