



AMD RYZEN™ 4000 U-SERIES MOBILE PROCESSORS



INTEL CORE i3, i5, i7 PROCESSORS

ONE PROCESSOR FAMILY. NO COMPROMISES.

With AMD Ryzen™ 4000 U-Series Mobile Processors, your customers don't have to choose between ultra-responsive productivity and big-time entertainment. Give your customers the freedom to do it all – faster than the competition.¹

HOW WE WIN:



Leadership CPU Core Technology

- 7nm “Zen 2” technology for ultra-responsive performance that runs cool & quiet
- World's first 7nm 8-core processor



Faster Performance

- The most cores available for ultrathin laptops¹ – for faster, more responsive performance
- Faster productivity, content creation and gaming than 10th Gen Intel® Core



Winning Graphics & Gaming

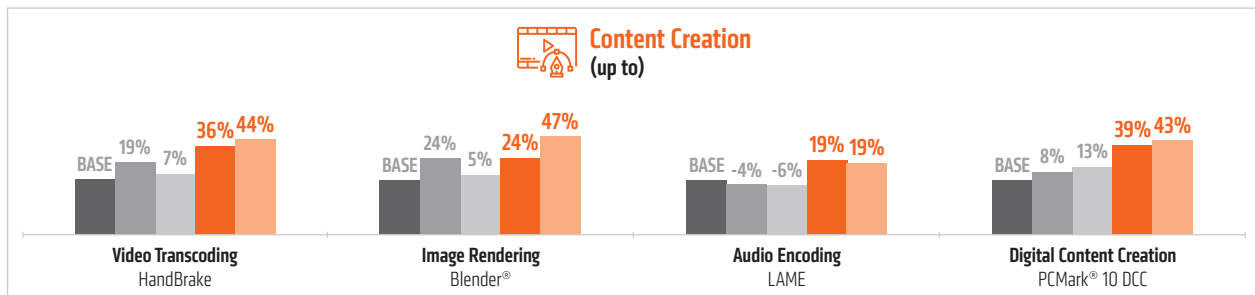
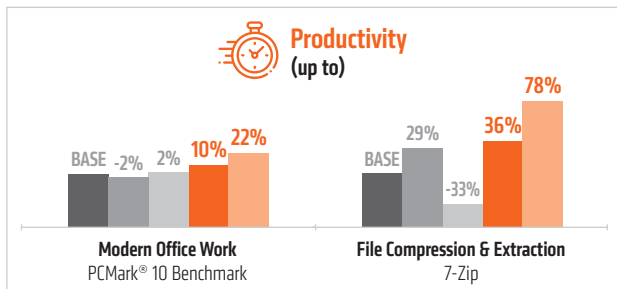
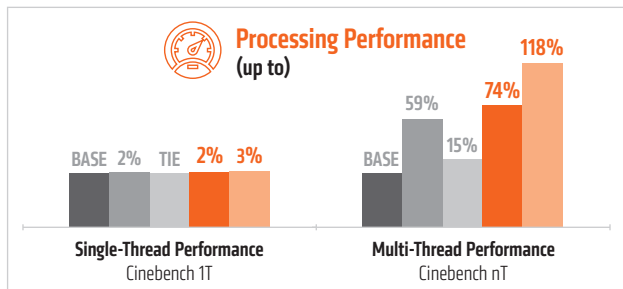
- The best graphics available for ultrathin laptops² with AMD Radeon™ Graphics—better than both Intel® UHD and Iris® Plus Graphics (current 10th Gen competitive products)
- Highest performance gaming on ultrathin laptops with integrated graphics³

AMD RYZEN™ 7



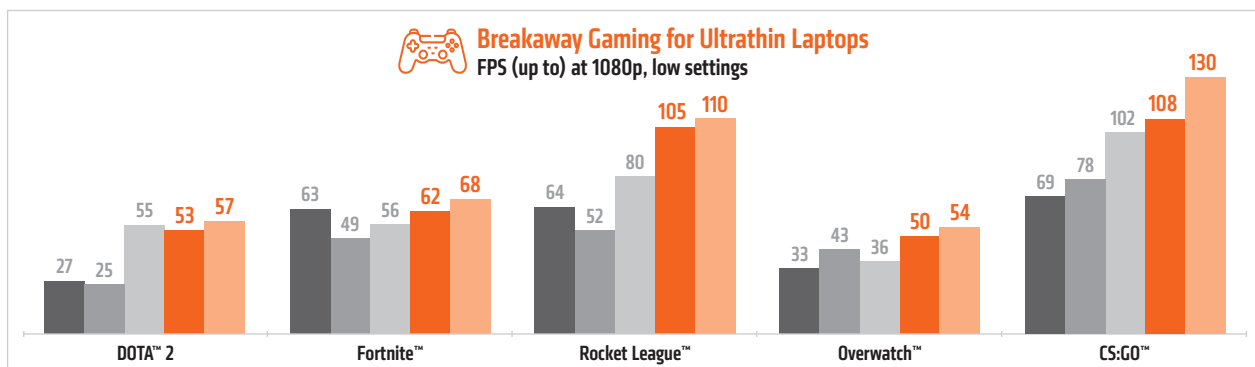
INTEL® CORE i7*

The AMD Ryzen™ 7 4800U is the world's highest performing ultrathin laptop processor⁴

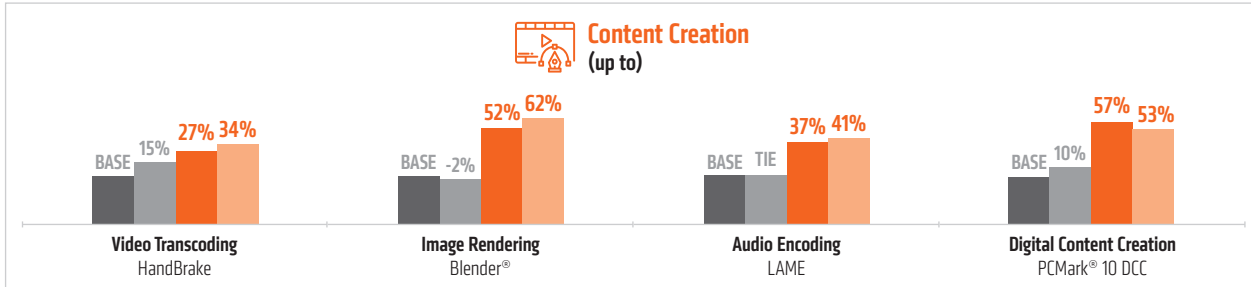
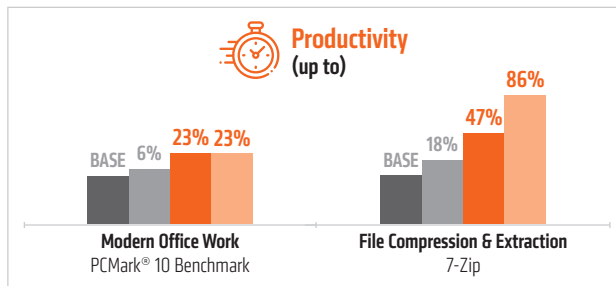
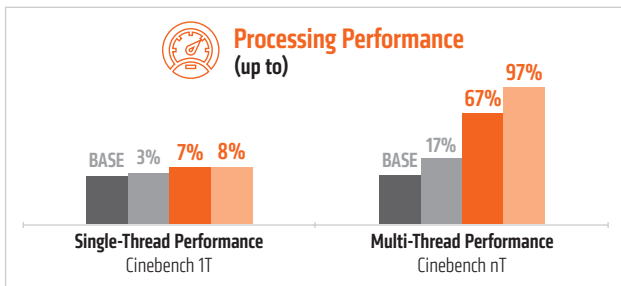


- Ryzen™ 7 4800U
- Ryzen™ 7 4700U
- Core i7-1065G7
- Core i7-10710U
- Core i7-10510U

* See endnotes RM3-269, RM3-219, RM3-222, RM3-223, RM3-224, RM3-225, RM3-226, RM3-227

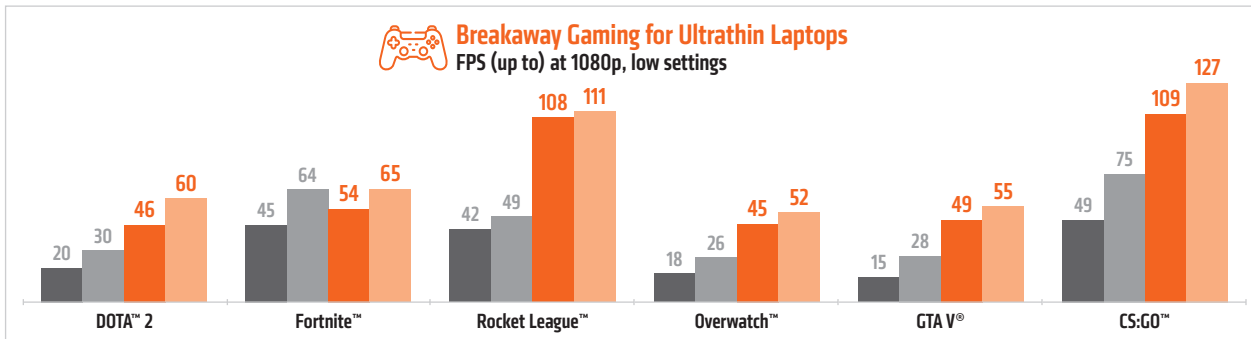


AMD RYZEN™ 5 VS INTEL® CORE i5*

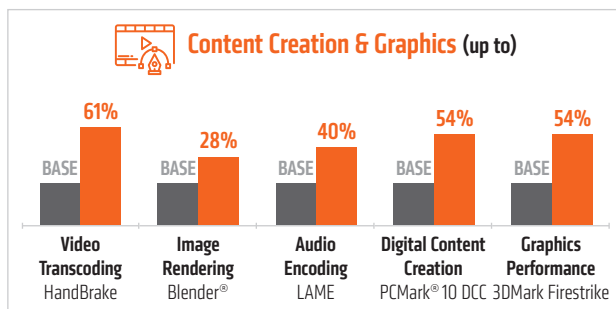
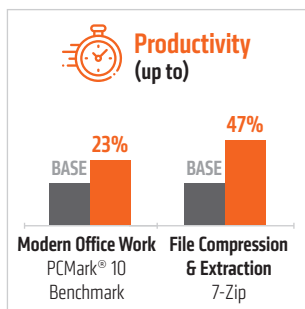
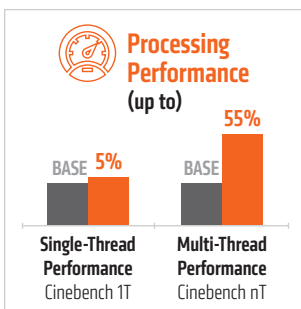


■ Ryzen™ 5 4600U
■ Ryzen™ 5 4500U
■ Core i5-1035G1
■ Core i5-10210U

* See endnotes RM3-270, RM3-234, RM3-237, RM3-238, RM3-239, RM3-240, RM3-241, RM3-242



AMD RYZEN™ 3 VS INTEL® CORE i3*



■ Ryzen™ 3 4300U
■ Core i3-1005G1

* See endnotes RM3-66, RM3-70, RM3-82, RM3-86, RM3-94, RM3-106, RM3-110, RM3-114

AMD Model	Architecture	Cores/Threads	Total Cache	Boost Freq. (up to) ¹⁰	TDP
AMD Ryzen™ 7 4800U	7nm	8C/16T	12 MB	4.2 GHz	15W
AMD Ryzen™ 7 4700U	7nm	8C/8T	12 MB	4.1 GHz	15W
AMD Ryzen™ 5 4600U	7nm	6C/12T	11 MB	4.0 GHz	15W
AMD Ryzen™ 5 4500U	7nm	6C/6T	11 MB	4.0 GHz	15W
AMD Ryzen™ 3 4300U	7nm	4C/4T	6 MB	3.7 GHz	15W

MODEL SPEC COMPARISON



Intel Model	Architecture	Cores/Threads	Total Cache	Max Turbo Freq. (up to)	TDP
Intel Core™ i7-1065G7	10nm	4C/8T	8 MB	3.9 GHz	15W
Intel Core™ i7-10710U	14nm	6C/12T	12 MB	4.7 GHz	15W
Intel Core™ i7-10510U	14nm	4C/8T	8 MB	4.9 GHz	15W
Intel Core™ i5-1035G1	10nm	4C/8T	6 MB	3.6 GHz	15W
Intel Core™ i5-10210U	14nm	4C/8T	6 MB	4.2 GHz	15W
Intel Core™ i3-1005G1	10nm	2C/4T	4 MB	3.4 GHz	15W

ENDNOTES

- RM3-125** Ultrathin laptop processors defined as 15W typical TDP. As of December 20, 2019, demonstrated by Ryzen 4000 U-series mobile processor having up to 8 cores, while comparable competitive product (Intel 10th generation mobile processors) offer up to 6 cores.
- RM3-218** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U processor in 3DMark® Time Spy. Results may vary. 3DMark is a registered trademark of Futuremark Corporation.
- RM3-227** Ryzen™ 7 4700U and 4800U mobile processors offer higher FPS performance across several popular game titles than Intel 10th Gen Ice Lake and Comet Lake mobile processors.
- RM3-127** Ultrathin laptop processor™ defined as 15W typical TDP. Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, and a Dell XPS 7390 with a 10th Gen Intel® Core i7-10710U processor using Cinebench R20 1T, Cinebench R20 nT and 3DMark 11 Performance. Results may vary. 3DMark is a registered trademark of Futuremark Corporation.
- RM3-269** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 7 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U processor in Cinebench R20 1T, Cinebench R20 nT, and 3DMark Time Spy. Results may vary. 3DMark is a registered trademark of Futuremark Corporation.
- RM3-219** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U processor in PCMark® 10 Benchmark. Results may vary. PCMark is a registered trademark of Futuremark Corporation.
- RM3-222** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 7 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U processor in 7-Zip. Results may vary.
- RM3-223** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 7 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U processor in HandBrake. Results may vary.
- RM3-224** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 7 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U processor in Blender Bench CPU BMW 27. Results may vary.
- RM3-225** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 7 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U processor in LAME audio encoding. Results may vary.
- RM3-226** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U processor in PCMark® 10 Digital Content Creation. Results may vary. PCMark is a registered trademark of Futuremark Corporation.
- RM3-227** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4800U reference system, a Dell XPS 7390 system with Intel® Core i7-1065G7 processor, a Dell XPS 7390 system with Intel® Core i7-10710U processor, and a Dell XPS 7390 system with Intel® Core i7-10510U using 1080P and low settings in Dawn of the Ancients, Fortnite, Rocket League, Overwatch, GTA V, and CS:GO. Results may vary.
- RM3-270** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 5 4600U reference system, an AMD Ryzen™ 5 4500U reference system, a Dell XPS 7390 system with Intel® Core i5-1035G1 processor, and a Dell XPS 7390 system with Intel® Core i5-10210U processor in Cinebench R20 1T, Cinebench R20 nT, and 3DMark Time Spy. Results may vary. 3DMark is a registered trademark of Futuremark Corporation.
- RM3-234** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 5 4600U reference system, an AMD Ryzen™ 5 4500U reference system, a Dell XPS 7390 system with Intel® Core i5-1035G1 processor, and a Dell XPS 7390 system with Intel® Core i5-10210U processor in PCMark® 10 Benchmark. Results may vary. PCMark is a registered trademark of Futuremark Corporation.
- RM3-237** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 5 4600U reference system, an AMD Ryzen™ 5 4500U reference system, a Dell XPS 7390 system with Intel® Core i5-1035G1 processor, and a Dell XPS 7390 system with Intel® Core i5-10210U processor in 7-Zip. Results may vary.
- RM3-238** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 5 4600U reference system, an AMD Ryzen™ 5 4500U reference system, a Dell XPS 7390 system with Intel® Core i5-1035G1 processor, and a Dell XPS 7390 system with Intel® Core i5-10210U processor in HandBrake. Results may vary.
- RM3-239** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 5 4600U reference system, an AMD Ryzen™ 5 4500U reference system, a Dell XPS 7390 system with Intel® Core i5-1035G1 processor, and a Dell XPS 7390 system with Intel® Core i5-10210U processor in Blender Bench. Results may vary.
- RM3-240** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 5 4600U reference system, an AMD Ryzen™ 5 4500U reference system, a Dell XPS 7390 system with Intel® Core i5-1035G1 processor, and a Dell XPS 7390 system with Intel® Core i5-10210U processor in LAME MP3 Encoder. Results may vary.
- RM3-241** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 5 4600U reference system, an AMD Ryzen™ 5 4500U reference system, a Dell XPS 7390 system with Intel® Core i5-1035G1 processor, and a Dell XPS 7390 system with Intel® Core i5-10210U processor in PCMark® 10 DCC. Results may vary. PCMark is a registered trademark of Futuremark Corporation.
- RM3-242** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 5 4600U reference system, an AMD Ryzen™ 5 4500U reference system, a Dell XPS 7390 system with Intel® Core i5-1035G1 processor, and a Dell XPS 7390 system with Intel® Core i5-10210U processor using 1080P and low settings in Dawn of the Ancients 2, Fortnite, League of Legends, Rocket League, Overwatch, GTA V, and CS:GO. Results may vary.
- RM3-66** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4300U reference system and a Dell XPS 7390 with Intel® Core i3-1005G1 processor in Cinebench R20 1T and nT. Results may vary.
- RM3-70** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4300U reference system and a Dell XPS 7390 system with Intel® Core i3-1005G1 processor in PCMark 10 Benchmark. Results may vary.
- RM3-82** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4300U reference system and a Dell XPS 7390 system with Intel® Core i3-1005G1 processor in 7-Zip. Results may vary.
- RM3-86** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4300U reference system and a Dell XPS 7390 system with Intel® Core i3-1005G1 processor in 3DMark Firestrike. Results may vary.
- RM3-94** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4300U reference system and a Dell XPS 7390 system with Intel® Core i3-1005G1 processor in HandBrake. Results may vary.
- RM3-106** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4300U reference system and a Dell XPS 7390 system with Intel® Core i3-1005G1 processor in Blender BMW27. Results may vary.
- RM3-110** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4300U reference system and a Dell XPS 7390 system with Intel® Core i3-1005G1 processor in LAME MP3 Encoder. Results may vary.
- RM3-114** Testing by AMD Performance Labs as of 12/09/2019 utilizing an AMD Ryzen™ 4300U reference system and a Dell XPS 7390 system with Intel® Core i3-1005G1 processor in PCMark 10 Digital Content Creation. Results may vary.

©2020 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, Athlon, Radeon and combinations thereof, are trademarks of Advanced Micro Devices, Inc. PID # 20460906