

# AMD RYZEN™ MOBILE PROCESSORS

AMD Ryzen™ Mobile Processors deliver premium performance for productivity, entertainment, gaming, and content creation in thin and light laptops.

APRIL 2020

NEW FOR 2020

## AMD Ryzen™ 4000 Series Mobile Processors

7nm “Zen 2” Architecture | Up to 8 cores, 16 Threads

Recommend the world’s most advanced laptop processors<sup>1</sup> for the best entertainment experiences and ultra-responsive computing for heavy workloads.

More cores means more performance<sup>6</sup> to **multitask, create, and game faster than ever**

Stay connected with **double the power efficiency<sup>2</sup>** of previous gen for longer battery life, and Wi-Fi 6 and Bluetooth 5<sup>3</sup> compatibility

Edit photos or stream entertainment in vibrant clarity with built-in AMD Radeon™ Graphics—the **best available for ultrathin laptops<sup>4</sup>**

	Model	CPU Cores / Threads	Total Cache	Max Boost <sup>5</sup> (up to)	TDP	GPU Cores	Graphics Frequency
Gaming & Content Creation	AMD Ryzen™ 9 4900H Mobile Processor with Radeon™ Graphics	8C/16T	12 MB	4.4 GHz	45W	8	1750 MHz
	AMD Ryzen™ 7 4800H Mobile Processor with Radeon™ Graphics	8C/16T	12 MB	4.2 GHz	45W	7	1600 MHz
	AMD Ryzen™ 5 4600H Mobile Processor with Radeon™ Graphics	6C/12T	11 MB	4.0 GHz	45W	6	1500 MHz
Premium Ultrathin	AMD Ryzen™ 7 4800U Mobile Processor with Radeon™ Graphics	8C/16T	12 MB	4.2 GHz	15W	8	1750 MHz
	AMD Ryzen™ 7 4700U Mobile Processor with Radeon™ Graphics	8C/8T	12 MB	4.1 GHz	15W	7	1600 MHz
	AMD Ryzen™ 5 4600U Mobile Processor with Radeon™ Graphics	6C/12T	11 MB	4.0 GHz	15W	6	1500 MHz
	AMD Ryzen™ 5 4500U Mobile Processor with Radeon™ Graphics	6C/6T	11 MB	4.0 GHz	15W	6	1500 MHz
	AMD Ryzen™ 3 4300U Mobile Processor with Radeon™ Graphics	4C/4T	6 MB	3.7 GHz	15W	5	1400 MHz

## 2<sup>nd</sup> Gen AMD Ryzen™ Mobile Processors

12nm “Zen+” Architecture | Up to 4 Cores, 8 Threads

Recommend for immersive entertainment and powerful productivity on-the-go.

**Snappy multitasking** to tackle to-do lists


Power efficient design supports **long-lasting battery for life on-the-go**

AMD Radeon™ Graphics deliver **gorgeous visuals** for captivating entertainment

	Model	CPU Cores / Threads	Total Cache	Max Boost <sup>5</sup> (up to)	TDP	GPU Cores	Graphics Frequency
Gaming & Content Creation	AMD Ryzen™ 7 3750H Mobile Processor with Radeon™ Vega Graphics	4C/8T	6 MB	4.0 GHz	35W	10	1400 MHz
	AMD Ryzen™ 5 3550H Mobile Processor with Radeon™ Vega Graphics	4C/8T	6 MB	3.7 GHz	35W	8	1200 MHz
Premium Ultrathin	AMD Ryzen™ 7 3700U Mobile Processor with Radeon™ Vega Graphics	4C/8T	6 MB	4.0 GHz	15W	10	1400 MHz
	AMD Ryzen™ 5 3500U Mobile Processor with Radeon™ Vega Graphics	4C/8T	6 MB	3.7 GHz	15W	8	1200 MHz
	AMD Ryzen™ 3 3300U Mobile Processor with Radeon™ Vega Graphics	4C/8T	6 MB	3.5 GHz	15W	6	1200 MHz
	AMD Ryzen™ 3 3250U Mobile Processor with Radeon™ Graphics	2C/4T	5 MB	3.5 GHz	15W	3	1200 MHz
	AMD Ryzen™ 3 3200U Mobile Processor with Radeon™ Vega Graphics	2C/4T	5 MB	3.5 GHz	15W	3	1200 MHz





The AMD Ryzen™ family of mobile processors includes **U-Series** for ultrathin premium devices and **H-Series** for thin and light gaming laptops. Help direct your customers to the best processor type to match their computing needs.

### GAMING & CONTENT CREATION




**AMD Ryzen™ H-Series**  
35-45W TDP | Optimized for discrete graphics cards

For gamers and content creators who desire the ultimate level of performance in a thin and light laptop.







	Ryzen™ 5	Ryzen™ 7	Ryzen™ 9
	Fast	Faster	Fastest
 <b>Game, Stream, &amp; Record</b> Capture every win		✓	✓
 <b>Intensive Workloads</b> 3D modeling and CAD software	✓	✓	✓
 <b>Demanding Content Creation</b> Render, edit, and encode time-intensive projects	✓	✓	✓
 <b>Ultra-smooth 1080p Gaming at High Settings</b> AAA, Esports, MMORPG, Battle Royale	✓	✓	✓

### PREMIUM ULTRATHIN DEVICES



**AMD Ryzen™ U-Series**  
15W TDP | Built-in AMD Radeon™ Graphics

For customers that want premium performance and long-lasting battery life in ultrathin laptops.

	Ryzen™ 3	Ryzen™ 5	Ryzen™ 7
	Fast	Faster	Fastest
 <b>Advanced Creative Apps</b> Render, edit, and encode			✓
 <b>Smooth 1080p Gaming at Low Settings</b> Play popular eSports		✓	✓
 <b>Power-User Productivity</b> Run multiple apps at once with ultra-responsiveness	✓	✓	✓
 <b>Streaming Entertainment</b> Watch your favorite shows in up to 4K, HDR	✓	✓	✓
 <b>Casual Gaming</b>	✓	✓	✓
 <b>Light Media Editing</b>	✓	✓	✓

1. RM3-01 As of January 2020, the Ryzen 4000 series mobile processor is the "Most advanced laptop processor," defined as superior 7nm process technology in a smaller node, 15W and 45W typical TDP.  
 2. RM3-123 Based on AMD internal analysis, March 2020, of Ryzen 4000 series processors vs. 2nd generation Ryzen™ processors. Actual performance per watt may vary.  
 3. Wi-Fi 6 and Bluetooth 5.0 availability varies by laptop manufacturer and are system configuration dependent. Check with your laptop manufacturer for compatibility information.  
 4. 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.  
 5. 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  
 6. RM3-6 Testing by AMD Performance Labs as of 11/22/2019 utilizing the Ryzen 7 4800U vs. 2nd Gen Ryzen 7 3700U in Cinebench R20 Benchmark. Results may vary.  
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