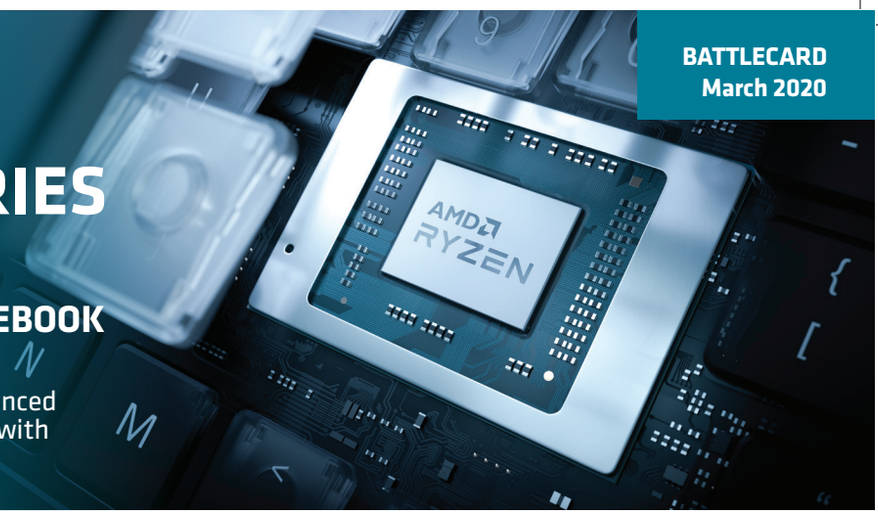
BATTLECARD
March 2020

AMD RYZEN™ 4000 SERIES MOBILE PROCESSORS

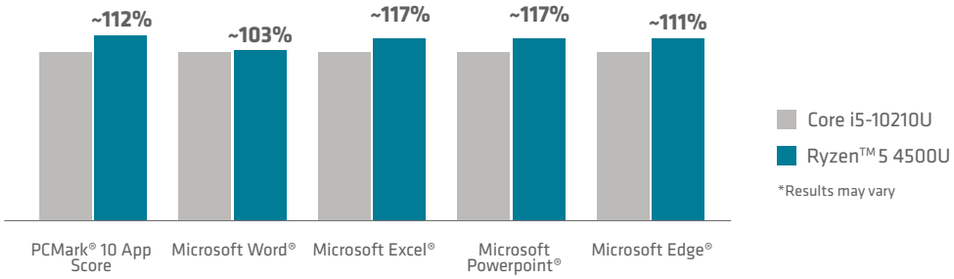
POWERING THE MODERN BUSINESS NOTEBOOK

The New AMD Ryzen™ 4000 series processors are the new standard for modern business PCs featuring the most advanced technology[1], leadership performance, and modern security with layers of protection, and a dedicated security processor.



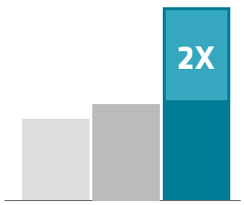
PERFORMANCE LEADERSHIP FOR THE OFFICE[2]

- Up to 8 Cores, 15W TDP
- Advanced "Zen 2" cores
- Power Efficient 7nm Process



*Results may vary

BREAKTHROUGH POWER EFFICIENCY[3]



Relative Perf-Per-Watt

Ryzen™ 2000 Series 14nm
Ryzen™ 3000 Series 12nm
Ryzen™ 4000 Series 7nm

LAYERED DEFENSES

Through a modern, multi-layered approach to security, AMD processors help protect your sensitive data from today's sophisticated attacks and avoid downtime.

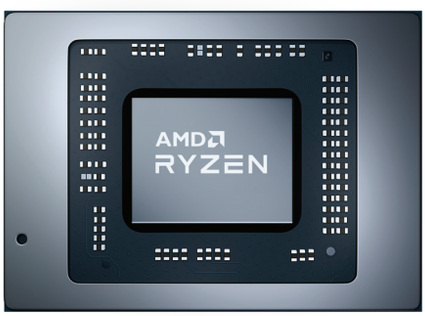
AMD Architecture:
AMD "Zen 2" Core architected with a focus on security features

AMD Secure Processor:
Helps secure the processing and storage of sensitive data and trust applications

BUILT FOR THE MODERN BUSINESS NOTEBOOK

Up to 8 Cores. The Most Cores in a x86 processor for Ultra-Thin Laptop[4]

Modern 7nm process and "Zen 2" Architecture



Cool, Quiet, Power Efficient 15W TDP

Built-in Security Processor

UPGRADE TO AMD PRO TECHNOLOGIES

AMD Ryzen™ 4000 Series Mobile Processors with PRO technologies deliver a step above for the most demanding business environments. AMD PRO technologies provide built-in data protection features, seamless manageability, and reliable longevity.

	AMD Ryzen™ 4000 Mobile Processors	AMD Ryzen™ PRO 4000 Mobile Processors
Productivity Performance	✓	✓
Enhanced Multi-Thread Performance	select models	✓
AMD Architecture	✓	✓
AMD Secure Processor	✓	✓
AMD PRO security		✓
AMD Memory Guard		✓
AMD PRO Manageability		✓
AMD PRO Business Ready		✓

HOW WE STACK UP?

	CORES/ THREADS	MFG TECH
Ryzen™ 7 4800U	8 / 16	7nm
Ryzen™ 7 4700U	8 / 8	7nm
Ryzen™ 5 4600U	8 / 16	7nm
Ryzen™ 5 4500U	6 / 6	7nm
Ryzen™ 3 4300U	4 / 4	7nm

	CORES/ THREADS	MFG TECH
Core i7-10710U	6 / 12	14nm
Core i7-10510U	4 / 8	14nm
Core i5-10210U	4 / 8	14nm
Core i3-10110U	2 / 4	14nm

Ryzen™ 4000 U-Series

- New “Zen 2” core
- New 7nm technology

Intel “Comet Lake”

- Old “Skylake” core
- Old 14nm technology

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To find out more about AMD Ryzen™ Processors, please visit **www.AMD.com/business**

1. 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. RM3-01
2. Testing as of 1/25/2020 by AMD Performance Labs on an AMD Celadon reference board (AMD Ryzen™ 5 4500U)
MSI MS-14B3 (Intel Core i5-10210U config) PCMark is a registered trademark of Futuremark Corporation. Results may vary. RPN-4
3. Based on AMD internal analysis and 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.
Rm3-123
4. As of January 2020, the Ryzen™ 7 4800 mobile processor has the “Most cores in an ultrathin laptop processor” demonstrated by Ryzen™ 7 4800 series mobile processor having 8 cores, while as of December 12th 2019, comparable competitive product (Intel 10th generation mobile processors) offer up to 6 cores. “Ultrathin laptop processor” defined as 15W typical TDP. RM3-05

“Zen” is a codename only and not an AMD product name.

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