AMD RYZEN™ PRO 4000 SERIES DESKTOP PROCESSORS

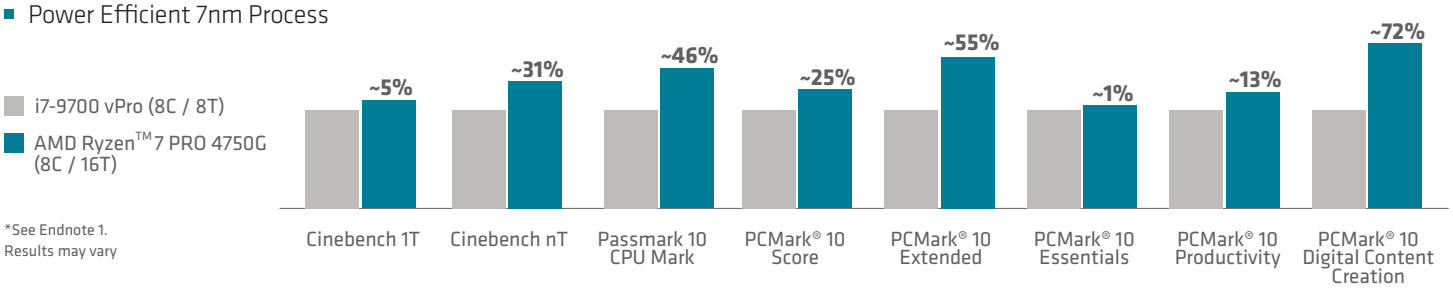
- ✓ Security Features
- ✓ Longevity
- ✓ Compatibility
- ✓ Supply
- ✓ Manageability
- ✓ Performance

New AMD Ryzen processors with PRO technologies check all the boxes of your next PC fleet.

AMD RYZEN PRO

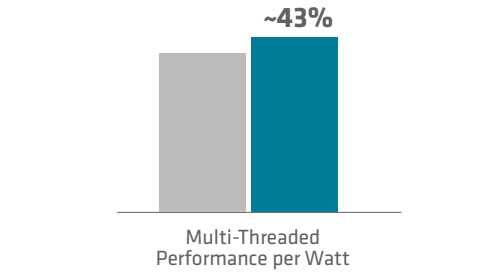
RESPONSIVE PRODUCTIVITY

- Up to 8 Cores, 16 Threads 65W TDP
- Advanced "Zen 2" cores
- Power Efficient 7nm Process



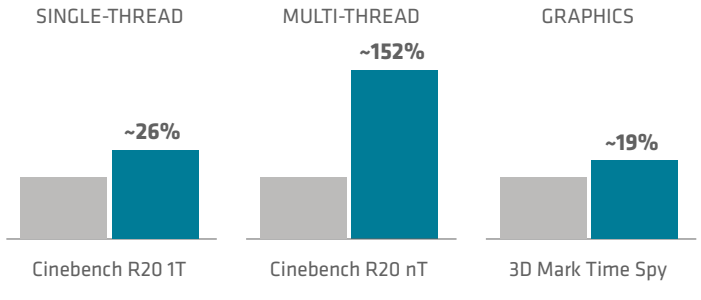
*See Endnote 1. Results may vary

HIGHER EFFICIENCY, LOWER TCO



*See Endnote 7. Results may vary

GENERATIONAL LEAP IN PERFORMANCE



*See Endnote 6. Results may vary

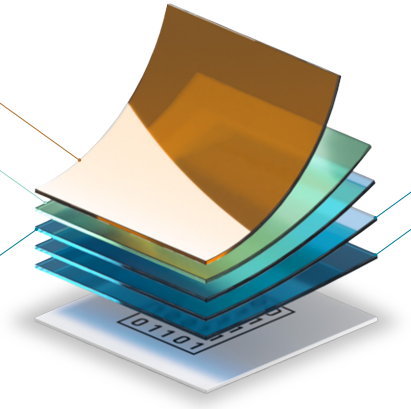
LAYERED DEFENSES WITH AMD PRO SECURITY

SECURE ECOSYSTEM
(OEM SECURITY FEATURES, WINDOWS 10 SECURITY)

- Partnering with Microsoft and OEMs to deliver Modern IT Security Ready PCs

AMD MEMORY GUARD

- Full memory encryption2 to help protect data against physical attacks should your PC be lost or stolen



AMD SECURE PROCESSOR

- An isolated hardware within the processor which validates every code for integrity before it's executed; a hardware root of trust

MODERN SECURITY ARCHITECTURE

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

THE NEW STANDARD

With the launch of AMD Ryzen™ PRO 4000 Series, we're defining a new standard for the modern business desktop.

OLD		MODERN
Slow pace of innovation and large price premium for expected features		Rapid innovation to deliver more powerful and responsive computing
Forced trade-offs between security & performance		Modern architecture designed from the ground up with security features as a priority
Proprietary features based on an outdated architecture	PRO	Open ecosystem plus design collaboration with Microsoft and OEMs to deliver superior security and manageability features

AMD PRO TECHNOLOGIES vs vPRO

AMD PRO TECHNOLOGIES	INTEL vPRO
AMD PRO SECURITY Layers of built-in security technology to help protect your sensitive data	**vPro Security**
AMD PRO MANAGEABILITY For simplified deployment, imaging, and management that is compatible with your current infrastructure	**Intel Active Management Technology (AMT)**
AMD PRO BUSINESS READY 18 months of planned software stability and 24 months of planned availability for a stable enterprise	**Intel Stable Image Platform Program (SIPP)**

RYZEN™ PRO 4000 SERIES vs COMPETITION[5]

AMD RYZEN PRO	CORES / THREADS	FREQUENCY (UP TO)[3,4]	CACHE	TDP	AMD PRO technologies
Ryzen™ 7 PRO 4750G	8 / 16	4.4 / 3.6 GHz	12 MB	65 W	✓
Ryzen™ 5 PRO 4650G	6 / 12	4.2 / 3.7 GHz	11 MB	65 W	✓
Ryzen™ 3 PRO 4350G	4 / 8	4.0 / 3.8 GHz	6 MB	65 W	✓

	CORES / THREADS	FREQUENCY (UP TO)	CACHE	TDP	vPro
i7-9700 i7-10700	8 / 8 8 / 16	4.7 / 3.0 GHz 4.8 / 2.9 GHz	12 MB 16 MB	65 W 65 W	✓ ✓
i5-9500 i5-10500	6 / 6 6 / 12	4.4 / 3.0 GHz 4.5 / 3.1 GHz	9 MB 12 MB	65 W 65 W	✓ ✓
i3-9100 i3-10100	4 / 4 4 / 8	4.2 / 3.6 GHz 4.3 / 3.6 GHz	6 MB 6 MB	65 W 65 W	

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

1. As of 4/28/2020. Testing by AMD Labs with the Ryzen 7 Pro 4750G vs. Core i7-9700 vPro vPro using the Cinebench R20 1T to measure single-thread performance, Cinebench R20 nT to measure multi-thread performance, Passmark10 CPU Mark to measure overall performance, and PCMark 10 benchmark to measure Extended/Essentials/Productivity/Digital Content Creation App performance. Results may vary. RPD-12
2. For general business laptops and desktops AMD Memory Guard, full system memory encryption, is included in AMD Ryzen PRO and Athlon PRO processors. PP-3
3. 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
4. Base frequency is the approximate processor clock speed of a typical workload running at the processor's standard TDP. GD-166.
5. This chart illustrates competitive product positioning, is not necessarily an indication of relative performance and may not be to scale for any performance metric. GD-75
6. As of 4/9/2020. Testing by AMD Labs using the Ryzen 7 Pro 4750G vs. Ryzen 5 3400G in the following benchmark tests: Single-thread performance: Cinebench R20 1T. Multi-thread: Cinebench R20 nT. Graphics: 3DMark TimeSpy. Results may vary. RPD-20
7. As of 5/8/20. Testing by AMD Labs using the Ryzen 7 PRO 4750G vs Intel Core i7-9700 vPro in the Cinebench R20nT benchmark test: Performance per Watt based on Cinebench R20nT points delivered per watt of system power consumption during test. Results may vary. RPD-07

"Zen 2" is a codename only and not an AMD product name.

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AMD