August 10, 2017

AMD Launches the Highest-Performance Desktop Processor, Ever, with Ryzen™ Threadripper™ High End Desktop Processors

-- Ryzen Threadripper Processors Set the New Computing Performance and Platform Benchmark in High-End Desktop Computing --

SUNNYVALE, Calif., Aug. 10, 2017 (GLOBE NEWSWIRE) -- Today, AMD (NASDAQ:AMD) released two models of its highly anticipated, Ryzen™ Threadripper™ high-end desktop processors, AMD Ryzen™ Threadripper ™1950X and AMD Ryzen™ Threadripper™ 1920X. During an already record-setting year for the company through the successful launch of several award-winning Ryzen™ desktop processors for the AM4 platform, today's release of Ryzen Threadripper marks a major step forward in performance and features for the high-end desktop market, with the new processor exceeding the expectations of even the most demanding developers, researchers, prosumers, creators, and multi-tasking gamers. Built around the new AMD x86 "Zen" core architecture, Ryzen Threadripper delivers overwhelming power, unrestrained potential, and indisputable supremacy over comparable products in the market.[1]

"The level of global support and excitement built-up around AMD Ryzen processors has been incredible to watch these last few months, and with today's Ryzen Threadripper launch, we deliver a new level of computing power to the world's fastest ultra-premium desktop systems via an entirely new platform and set of multi-core processors," said Jim Anderson, senior vice president and general manager, Computing and Graphics Group, AMD. "Ryzen Threadripper is the jolt of innovation that the high-end desktop customer was waiting for, providing the long-awaited ability to choose a processor that best fulfills their computing needs at a competitive price."

Performance and Availability

Both new models of Ryzen Threadripper support the new SocketTR4 platform, sporting sixty-four PCIe® lanes, quad channel DDR4 memory, and AMD simultaneous multithreading (SMT). With support for 16 cores and 32 processing threads, the Ryzen Threadripper 1950X delivers unprecedented multi-processing power, the likes of which have never been available for consumer desktop systems before. The Ryzen Threadripper 1920X provides 12 cores and 24 processing threads and will be available on-shelf along with the Threadripper 1950X on August 10th, 2017. A third variant, the 8-core 16-thread Ryzen Threadripper 1900X, is expected to be available August 31.

Product Line	Model	Cores	Threads	Base Clock (GHz)	Boost Clock (GHz)	XFR (GHz)	PCIe® Lanes	TDP (Watts)	Suggested Price, SEP (USD)	Availability
AMD Ryzen™ Threadripper™	1950X	16	32	3.4	4.0	4.2	64	180	$999	Aug. 10
AMD Ryzen™ Threadripper™	1920X	12	24	3.5	4.0	4.2	64	180	$799	Aug. 10
AMD Ryzen™ Threadripper™	1900X	8	16	3.8	4.0	4.2	64	180	$549	Aug. 31

Whether rendering complex 3D scenes, streaming high-quality video game content, or encoding, compiling, and encrypting files in parallel of each other, the world-class performance per clock and efficiency of AMD's "Zen" architecture means users can do so without sacrificing efficiency or performance. Ryzen Threadripper 1950X and 1920X processors include 40MB and 38MB of processor cache, respectively, and all Ryzen Threadripper processors from the $549 Threadripper 1900X to the $999 Threadripper 1950X feature the same Quad-Channel DDR4 memory bandwidth, 64 lanes of PCIe® 3.0 connectivity, and processor-direct SATA/NVMe/USB connectivity. In addition, every Ryzen Threadripper processor is multiplier-unlocked to provide unlimited user flexibility.[2] A full ecosystem of SocketTR4 X399 platforms, with native USB 3.1 Gen2 10GB/s connectivity, provide support for all Ryzen Threadripper processors at launch, with motherboards coming from top manufacturers like ASRock, ASUS, Gigabyte, and MSI.

Alienware Area-51 Threadripper™ Edition

In a testament to the multi-tasking and gaming capabilities of Ryzen Threadripper, Alienware has also launched its exclusive pre-built 16-core AMD Ryzen Threadripper™ Edition system to acclaim from high-end desktop enthusiasts worldwide. The new Alienware Area-51 Threadripper Edition, named "Best of E3" by Tom's Guide and PC Gamer sports a similar Triad chassis design to that of existing Area-51 systems, but incorporates AMD's powerful Ryzen Threadripper 1950X processor.

"Built into the Alienware brand DNA, we stand by our commitment to deliver optimum gaming performance with iconic design and outstanding quality, Alienware is pleased to be first and only OEM to offer AMD's Ryzen Threadripper to gamers and the new field of home content creators and megatasking streamers," said Frank Azor, VP and GM, Alienware, Dell Gaming and XPS. "The Alienware Area-51 Threadripper Edition with the first-ever 16-core desktop processor and CPU liquid cooling allows you to use the most demanding applications to play, record and create simultaneously – taking your gaming and content creation experience to a whole new level."

Supporting Resources

- Learn more about AMD Ryzen Threadripper at AMD.com/Threadripper
- Learn more about AMD Ryzen processors at AMD.com/Ryzen
- Learn more about the "Zen" core architecture at AMD.com/Zen
- Learn more about AMD Products, Solutions, and Innovations
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technology daily to improve how they live, work, and play. AMD employees around the world are focused on building great products that push the boundaries of what is possible. For more information about how AMD is enabling today and inspiring tomorrow, visit the AMD (NASDAQ: AMD) website, blog, Facebook and Twitter pages.

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[1] Testing by AMD Performance labs as of July 22, 2017 on the following systems. PC manufacturers may vary configurations yielding different results. Results may vary based on driver versions used. System Configurations: AMD Ryzen Threadripper 1950X and 1920X processors on an ASUS ROG X399 Zenith Extreme motherboard, Intel Core i9-7900X processor on an X299 AORUS Gaming9 motherboard. All systems equipped with 32GB (4 x 8GB) DDR4-3200 RAM, Samsung 850 PRO 512GB SSD, Windows 10 RS2 operating system, Geforce TX 1080 Ti graphics adapter, Graphics driver 384.76 :: 7/22/2017. Cinebench R15 nT is used to simulate multi-threaded CPU performance; the AMD Ryzen™ Threadripper 1950X scored 3042, while the Intel Core i9-7900X Extreme (Intel's fastest consumer desktop processor) scored 2212 for a benchmark score comparison of 3042/2212 = 1.38× or 38% more on AMD Ryzen Threadripper 1950X; the AMD Ryzen™ Threadripper 1950X scored 2451 for a benchmark score comparison of 2451/2212 = 1.11× or 11% more on AMD Ryzen Threadripper 1920X. Cinebench R15 1T is used to simulate single-threaded CPU performance; the AMD Ryzen™ Threadripper 1950X scored 167, while the Intel Core i9-7900X Extreme (Intel's fastest consumer desktop processor) scored 197 for a benchmark score comparison of 167/197 = 0.85× or 15% less on AMD Ryzen Threadripper 1950X; the AMD Ryzen™ Threadripper 1950X scored 167 for a benchmark score comparison of 167/197 = 0.85× or 15% less on AMD Ryzen Threadripper 1920X. The AMD Ryzen™ Threadripper 1950X scored 3042, while the AMD Ryzen 7 1800X (AMD's fastest consumer desktop processor prior to Threadripper) scored 1601 for a benchmark score comparison of 3042/1601 = 1.90× or 90% more on AMD Ryzen Threadripper 1950X. RZN-46

[2] AMD's product warranty does not cover damages caused by overclocking, even when overclocking is enabled via AMD hardware and/or software. GD-26

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Source: Advanced Micro Devices