October 29, 2018

AMD Expands 2nd Generation Ryzen™ Threadripper™ Desktop Processor Line-up, Powering Ultimate Computing Experiences, Available Today From $649*

Powerful pre-built gaming machines now available from Alienware and system integrators around the globe

SANTA CLARA, Calif., Oct. 29, 2018 (GLOBE NEWSWIRE) -- Today, AMD (NASDAQ: AMD) announced availability of two additional 2nd Gen AMD Ryzen Threadripper processor models, 2970WX with 24 cores and 48 threads and the Ryzen Threadripper 2920X with 12 cores and 24 threads. The Ryzen Threadripper WX series commands class-leading core counts, purpose-built for prosumers focused on raw computational power for the heaviest workloads. In turn, Ryzen Threadripper X series provides enthusiasts, gamers, and streamers high performance with a beautiful and smooth gaming experience based on higher base and boost processor clock speeds than the previous generation.

“The dramatic transformation in the HEDT and overall PC market is driven by AMD leadership and innovation, and the AMD Ryzen Threadripper family is central to this global excitement,” said Saeid Moshkelani, senior vice president and general manager, Client Compute, AMD. “We are expanding this excitement while also ensuring the HEDT market remains accessible to a broader range of creators and gamers with two new Threadripper processors that start at $649*.”

Powerhouse for Gaming & Creating

The 24 core/48 thread Ryzen Threadripper 2970WX processor and the 12 core/24 thread Ryzen Threadripper 2920X processor offer unprecedented multi-threading with up to 39%[1] and 55%[2] faster multi-threaded performance compared to the Core i9-7960X and Core i7-7820X respectively. Ryzen Threadripper 2920X also offers simultaneous 4K gaming and 4K30 at 40,000 Kilobit per second (Kbps)[3] encoding, so gamers can stream their gameplay smoothly.

Both the 2970WX and 2920X processors offer up to 32%[4] faster performance in ray-tracing, and 60%[5] faster encryption for creators compared to the Core i9-7960X and Core i7-7820X respectively.

New Features and Holiday Bundles

Designed specifically for Ryzen Threadripper WX processors, a key new feature is Dynamic Local Mode (DLM) software, which optimizes application performance by ensuring the most demanding threads always receive preferential time on cores with local memory. This feature is automatically configured by downloading AMD Ryzen™ Master on Ryzen Threadripper 2990WX or 2970WX systems*. Without requiring any user input, Dynamic Local Mode:

- measures CPU time of active threads;
- ranks active threads from most to least demanding;
- automatically migrates the most demanding threads to dies with local memory access;
- accelerates lightly-threaded and latency sensitive apps without impact to heavy multi-threaded tasks.

When enabled, Dynamic Local Mode results in an average of 15 percent additional performance[6] for Ryzen Threadripper WX Series CPUs in select applications, including the SPECwpc™ benchmark and games like PUBG™, Far Cry® 5, and Alien: Isolation™. AMD also plans to open the feature up to even more users by including Dynamic Local Mode as a default package in forthcoming updates to AMD chipset drivers.

All 2nd Gen Ryzen Threadripper CPUs are supported by a full ecosystem of exciting new motherboards as well as existing X399 platforms with a simple BIOS update, with designs already available from top motherboard manufacturers including ASRock, ASUS, Gigabyte, and MSI. During the holiday 2018 period, these motherboard manufacturers are offering bundles starting from $199 when paired with Ryzen Threadripper CPUs. For more information on bundle programs, please visit the motherboard manufacturers' websites.

* AMD Ryzen features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. Check with your motherboard and system manufacturer.

2nd Generation AMD Ryzen Threadripper Desktop Processor Line-up and Availability

MODEL	CORES/ THREADS	BOOST/ BASE FREQUENCY (GHZ)	Total Cache (MB)	TDP (WATTS)	PCIe® Gen 3.0 LANES (processor / platform)	SEP* (USD)	AVAILABILITY
AMD Ryzen™ Threadripper™ 2990WX	32/64	4.2/3.0	80	250W	64 / 72	$1,799	Aug. 13, 2018
AMD Ryzen™ Threadripper™ 2970WX	24/48	4.2/3.0	76	250W	64 / 72	$1,299	Oct. 29, 2018
AMD Ryzen™ Threadripper™ 2950X	16/32	4.4/3.5	40	180W	64 / 72	$899	Aug. 31, 2018
AMD Ryzen™ Threadripper™ 2920X	12/24	4.3/3.5	38	180W	64 / 72	$649	Oct. 29, 2018

Both the 24 core/48 thread Ryzen Threadripper 2970WX and 12 core/24 thread 2920X models are available today from global retailers. Exciting pre-built SI systems are available from various global partners, and a complete list of participating partners, retailers, and launch information can be found at https://www.amd.com/en/where-to-buy/threadripper-systems.

Alienware Area-51 Threadripper Edition systems will now offer the 2nd Gen Ryzen Threadripper Edition processors. The new Alienware Area-51 with its iconic design will now include AMD's powerful 16-core Ryzen Threadripper 2950X and 12-core Ryzen

Threadripper 2920X. In addition, Alienware will expand their Area 51 R7 portfolio to include the 8-core Ryzen Threadripper 1900X.

"The partnership with AMD continues to thrive with the inclusion of the 2nd Gen Ryzen Threadripper CPU in our 12 and 16-core Alienware Area-51, our flagship Alienware desktop built for exceptional gaming performance with mega-tasking capabilities," said Frank Azor, Vice President and General Manager, Alienware, G Series, and XPS. "Following the success of the original AMD Threadripper edition, the 2nd Gen Ryzen Threadripper will continue to allow our community to game, stream and create with the performance and quality the Alienware brand represents."

Supporting Resources

- Learn more about 2nd Generation AMD Ryzen Threadripper processors
- Learn more about Dynamic Local Mode
- Become a fan of AMD on Facebook
- Follow AMD on Twitter

About AMD
For more than 45 years AMD has driven innovation in high-performance computing, graphics and visualization technologies — the building blocks for gaming, immersive platforms and the datacenter. Hundreds of millions of consumers, leading Fortune 500 businesses and cutting-edge scientific research facilities around the world rely on AMD 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.

* All prices in $USD suggested online retailer price.

[1] Testing by AMD Performance Labs as of 10/4/2018. Application(s) used: Cinebench R15. Scores presented in order of Intel v. AMD (%diff). Multi-thread test: 3132 v. 4353 (39% faster). Single-thread test: 184 vs. 172 (6.52% slower). System configuration(s): ASUS ROG Zenith X399 Extreme + AMD Ryzen Threadripper 2970WX vs. ASUS PRIME X299-Deluxe + Core i9-7960X, 4x8GB DDR4-3200C14, Corsair H100 v2 Cooler, GeForce GTX 1080 Ti (driver 398.36), Samsung 850 PRO SSD, Windows® 10 x64 Pro (RS4), Results may vary with system config and drivers. RP2-34

[2] Testing by AMD Performance Labs as of 10/4/2018. Application(s) used: Cinebench R15. Scores presented in order of Intel v. AMD (%diff). Multi-thread test: 1686 v. 2617 (55% faster). Single-thread test: 178 vs. 183 (2.73% slower). System configuration(s): ASUS ROG Zenith X399 Extreme + AMD Ryzen Threadripper 2920X vs. ASUS PRIME X299-Deluxe + Core i7-7820X, 4x8GB DDR4-3200C14, Corsair H100 v2 Cooler, GeForce GTX 1080 Ti (driver 398.36), Samsung 850 PRO SSD, Windows® 10 x64 Pro (RS4), Results may vary with system config and drivers. RP2-30

[3] Testing by AMD Performance Labs as of 10/4/2018. Application(s) used: Overwatch (4K resolution with High IQ Preset), OBS Video Encoding (40,000Kbps CBR, Faster CPU Usage, High Profile, 3840x2160, Lanczos resize). Results presented in order of Intel vs. AMD (% difference). Overwatch: 91 FPS vs. 76 FPS (19% slower); OBS Encoding Frame Drop Rate: 0% vs. 66%. System configuration(s): ASUS ROG Zenith X399 Extreme + AMD Ryzen Threadripper 2920X vs. ASUS PRIME X299-Deluxe + Core i7-7820X, 4x8GB DDR4-3200C14, Corsair H100 v2 Cooler, GeForce GTX 1080 Ti (driver 398.36), Samsung 850 PRO SSD, Windows® 10 x64 Pro (RS4), Results may vary with system config and drivers. RP-33

[4] Testing by AMD Performance Labs as of 10/4/2018. Application(s) used: POV-Ray 3.7 nT, Corona 1.3, V-Ray 1.0.8, DaVinci Resolve 15, Maya 2018. Scores presented in order of Intel v. AMD (%diff). POV-Ray: 6370 v. 8429 (32% faster); Corona: 60 seconds vs. 50 seconds (21% faster); V-Ray: 39 seconds vs. 31 seconds (26% faster); DaVinci Resolve: 114 seconds vs. 89 seconds (22% faster); Maya: 157 seconds vs. 135 seconds (14% faster). System configuration(s): ASUS ROG Zenith X399 Extreme + AMD Ryzen Threadripper 2970WX vs. ASUS PRIME X299-Deluxe + Core i9-7960X, 4x8GB DDR4-3200C14, Corsair H100 v2 Cooler, GeForce GTX 1080 Ti (driver 398.36), Samsung 850 PRO SSD, Windows® 10 x64 Pro (RS4), Results may vary with system config and drivers. RP2-35.

[5] Testing by AMD Performance Labs as of 10/4/2018. Application(s) used: POV-Ray 3.7 nT (“raytracing”), TrueCrypt 7.1a (“encryption”), 7-Zip 18.01 (“file compression”), Blender Benchmark 1.0beta (3D rendering), HandBrake 1.0.7 (“video encoding”). Scores presented in order of Intel v. AMD (%diff). POV-Ray: 3717 v. 5146 (38.4% faster); TrueCrypt: 10GBps vs. 6 GBps (60% faster); 7-Zip: 49669 MIPS vs. 68924 MIPS (39% faster); Blender: 3798 seconds vs. 2824 seconds (25% faster); Handbrake: 501 seconds vs. 381 seconds (31% faster). System configuration(s): ASUS ROG Zenith X399 Extreme + AMD Ryzen Threadripper 2920X vs. ASUS PRIME X299-Deluxe + Core i7-7820X, 4x8GB DDR4-3200C14, Corsair H100 v2 Cooler, GeForce GTX 1080 Ti (driver 398.36), Samsung 850 PRO SSD, Windows® 10 x64 Pro (RS4), Results may vary with system config and drivers. RP2-31

[6] Testing by AMD Performance Labs as of 10/4/2018. Results presented in order of Dynamic Local Mode OFF vs. ON (% difference). All games tested at 1920x1080 with the graphics API and in-game graphics preset noted. Far Cry 5 (DirectX 11/Ultra): 48 FPS vs. 53 FPS (10% faster); PUBG (DirectX 11/Ultra): 99 FPS vs. 111 FPS (12% faster); Battlefield 1 (DirectX 12/Ultra): 136 FPS vs. 200 FPS (47% faster); Alien: Isolation (DirectX® 11/Ultra): 199 FPS vs. 234 FPS (18% faster); Unreal Engine Compile Time: 954 seconds vs. 810 seconds (15% faster); SPECwpc® V2.1 Rodinia euler3d_cpu: 4.25 vs. 3.36 (21% faster). Average of results less Battlefield 1 outlier: 15.2% faster. System configuration: AMD Ryzen Threadripper Reference Motherboard, AMD Ryzen Threadripper 2990WX, 4x8GB DDR4-3200, GeForce GTX 1080 (driver 399.24), Samsung 850 Pro SSD, Windows 10 Pro x64 (RS4). Results may vary with drivers and system configuration. SPECwpc® V2.1 is the latest version of SPECwpc® as of 9 October 2018. Additional information about the SPEC benchmarks can be found at www.spec.org/gwpg. RP2-36

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