April 24, 2017

The New Radeon Pro Duo Delivers Professional-Grade Performance & Flexibility for Today's Most Complex Multi-Tasking Workflows

With up to 2 times faster performance vs. the closest competing professional graphics card(1) on select professional applications, users can truly divide and conquer

LAS VEGAS, NV -- (Marketwired) -- 04/24/17 -- ***NAB SHOW 2017 -*** Today AMD (NASDAQ: AMD) announced the world's first dual-GPU graphics card designed for professionals: the Polaris-architecture-based Radeon™ Pro Duo. Built on the capabilities of the Radeon™ Pro WX 7100, the Radeon Pro Duo professional graphics card is designed to excel at media and entertainment, broadcast, and design and manufacturing workflows, delivering outstanding performance and superior flexibility that today's creative professionals demand.

The Radeon Pro Duo is equipped with 32GB of ultra-fast GDDR5 memory to handle larger data sets, more intricate 3D models, higher resolution videos, and complex assemblies with ease. Operating at a max power of 250W, the Radeon Pro Duo harnesses a total of 72 compute units (4608 stream processors) for a combined performance of up to 11.45 TFLOPS of single-precision compute performance on one board, and twice the geometry throughput of the Radeon™ Pro WX 7100.[2] The Radeon Pro Duo enables professionals to work up to four 4K monitors at 60Hz, drive the latest 8K single monitor display at 30Hz using a single cable, or drive an 8K display at 60Hz using a dual cable solution.

"Today's professional workflows continue to increase in complexity, often demanding that creators switch between a wide variety of applications to progress their work, pausing efforts in one application while computing resources are focused on another. We designed the Radeon Pro Duo to eliminate those constraints, empowering professionals to multi-task without compromise, dedicating GPU resources where and how they need them. It's a continuation of our promise for Radeon Pro: to provide greater choice in how professionals practice their craft, enabling superior multi-tasking, accelerated applications, and powerful solutions for advanced workloads like VR," said Ogi Brkic, general manager, professional graphics, Radeon Technologies Group, AMD.

Divide
The Radeon Pro Duo's distinct dual-GPU design gives professionals the flexibility to divide and conquer their workloads, enabling smooth multi-tasking between applications by committing GPU resources to each. Professionals can maintain their creative momentum and get more done faster, allowing for a greater number of design iterations in the same time.

"I was very impressed with the power of the Radeon Pro Duo, particularly in Nuke. The flexibility of being able to divide GPUs between tasks is phenomenal and represents the ultimate in multitasking: compositing a complex shot while jumping into a 3D application to create assets, exporting back to Nuke to keep compositing then switching to Photoshop or Mari and paint a projection, to load it back into Nuke and continue. The Radeon Pro Duo handles the general and varied tasks without missing a beat with excellent 3D performance. For the kind of projects I undertake as a generalist, the Radeon Pro Duo is a no-brainer. It does it all," said Kynan Stephenson, freelance artist.

Accelerate
The Radeon Pro Duo dramatically increases performance in today's most popular professional applications through support of multiple GPUs or plug-ins, speeding through tasks. On select professional applications, the Radeon Pro Duo delivers up to 2 times faster performance compared with the Radeon Pro WX 7100[3] and up to 2 times faster performance than the closest competing professional graphics card.[1]

Create
The Radeon Pro Duo's potent combination of performance and dual-GPU flexibility makes it the ideal solution for today's advanced workloads, including professional VR content creation. VR represents a significant inflection point for the media and entertainment industry and is becoming more commonplace in today's studios. Radeon Pro Duo professional graphics card leverages the power of two GPUs to render out separate images for each eye, increasing VR performance over single GPU solutions by up to 50% in the SteamVR test.[4] AMD's LiquidVR™ technologies are also supported by the industry's leading real-time engines, including Unity and Unreal, to help ensure smooth, comfortable, and responsive VR experiences on Radeon Pro Duo.

"In developing 4K 360 VR content, the biggest hurdle is the tech, because as an artist, I just want to create and not worry about limitations of the hardware. Faced with raw, un-optimized content, VR creators need a lot more horsepower than VR consumers. With the new Radeon Pro Duo, I have performance in spades. I immediately saw a speed difference of up to 2X, allowing me to push the boundaries of my projects without having to compromise on creativity or productivity," said Jonathan Winbush, Founder & Creative Director, Winbush.tv.

The Radeon™ Pro Duo is designed to meet the stringent requirements of workstation form factors, comes with 24/7 support[5], and is bolstered by professional-grade software certified across leading applications for media, entertainment, CAD and engineering. Radeon™ Pro Software offers users unprecedented driver stability, quality and reliability, with quarterly updates for features, performance and stability.

The Radeon Pro Duo's planned availability is the end of May at an expected SEP of US$999.

Radeon Pro at NAB 2017
Along with the launch of the Radeon Pro Duo at NAB 2017, AMD is showing off a wide range of innovations for media and entertainment professionals:

- Professional color correction using BlackMagic Resolve powered by the new Radeon Pro Duo
- Incredible real-time 360 video stitching and real-time VR preview using Radeon™ Loom and the HTC Vive, and powered by the new Radeon Pro Duo

- Accelerated rendering performance in Blender using Radeon ProRender and "Out of Core" technology to access system memory for increased frame buffer capacity powered by the Radeon Pro Duo
- VR content creation using Radeon Pro Duo
- Real-time rendering at 4K resolution in Radeon ProRender powered by AMD's next-generation Radeon™ Pro SSG
- 8K video post-processing in Adobe Premiere Pro CC 2017 enabled by AMD's next-generation Radeon™ Pro SSG
- Stunning VR experiences from Rewind and The Foundry's Nuke running on Radeon™ Pro WX 7100

Demonstrations are available at the AMD booth at the Las Vegas Convention Center, South Lower Hall, #SL7620, and in the Studio Xperience booth, also in the South Lower Hall, #SL2424.

Supporting Resources

- Read about Radeon Pro graphics cards
- See more details about the Radeon Pro Software Enterprise Driver
- Learn more about Radeon ProRender
- Learn more about GPUOpen
- Become a fan of AMD on Facebook
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About AMD

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[1] Testing conducted by AMD Performance Labs as of March 25th, 2017 on a test system comprising of dual Intel Xeon E5-2687W v4 @ 3.00 GHz, 32GB DDR4 RAM, Windows 10 Enterprise 64-bit, AMD Radeon™ Pro Duo(Polaris)/Nvidia Titan X, AMD graphics driver 17.10, Nvidia graphics driver 378.92 and Samsung 850 PRO 512G SSD. Benchmark Application: Adobe Premiere Pro CC 2017. Nvidia Titan X 37 effects render time: 19 minutes 08 seconds. Radeon™ Pro Duo (Polaris) 37 effects render time: 8 minutes 46 seconds. Performance Differential: 1148/526 = ~2.18 times faster performance on Radeon™ Pro Duo (Polaris). PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. Results are estimates only. RPW-111
Benchmark Application: Blender 2.78c. Nvidia Titan X (Pascal) Koro scene render time: 5 minutes 56 seconds. Radeon™ Pro Duo (Polaris) Koro scene render time: 3 minutes and 8 seconds. Performance Differential: (356-188)/188 = ~89.36% faster

performance on Radeon™ Pro Duo (Polaris). PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. Results are estimates only. RPW-101

2. The Radeon™ Pro WX 7100 delivers 5.727744 billion triangles per second while the Radeon Pro Duo delivers 11.455488 billion triangles per second.

3. Testing conducted by AMD Performance Labs as of March 25th, 2017 on a test system comprising of dual Intel Xeon E5-2687W v4 @ 3.00 GHz, 32GB DDR4 RAM, Windows 10 Enterprise 64-bit, AMD Radeon™ Pro WX7100/AMD Radeon™ Pro Duo(Polaris), graphics driver 17.10 and Samsung 850 PRO 512G SSD.
Benchmark Application: Autodesk Maya - Radeon ProRender plugin. Radeon™ Pro WX7100 Dragon scene 8xAA render time: 275 seconds. Radeon™ Pro Duo (Polaris) Dragon scene 8xAA render time: 129 seconds. Performance Differential: 275/129 = ~2.13 times faster performance on Radeon™ Pro Duo (Polaris). PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. RPW-106
Benchmark Application: Blender 2.78c. Radeon™ Pro WX7100 Koro scene render time: 6 minutes 17 seconds. Radeon™ Pro Duo (Polaris) Koro scene render time: 3 minutes and 8 seconds. Performance Differential: 377/188 = ~2 times faster performance on Radeon™ Pro Duo (Polaris). PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. RPW-107
Benchmark Application: LuxMark v3.1 - Hotel Lobby Scene. Radeon™ Pro WX7100 score: 2676. Radeon™ Pro Duo (Polaris) score: 6086. Performance Differential: 6086/2676 = ~2.27 times faster performance on Radeon™ Pro Duo (Polaris). PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. RPW-105
Benchmark Application: V-Ray standalone denoising tool using all system OpenCL devices, including CPUs and GPUs, with strong mode for 4K animation frames. System with Radeon™ Pro WX7100 denoising time per frame: 11.01 seconds. System with Radeon™ Pro Duo (Polaris) denoising time per frame: 5.89 seconds. Performance Differential: 11.01/5.89 = ~86.93 % faster performance on Radeon™ Pro Duo (Polaris). PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. RPW-112

4. Testing conducted by AMD Performance Labs as of March 25th, 2017 on a test system comprising of dual Intel Xeon E5-2687W v4 @ 3.00 GHz, 32GB DDR4 RAM, Windows 10 Enterprise 64-bit, AMD Radeon™ Pro WX7100/AMD Radeon™ Pro Duo(Polaris), graphics driver 17.10 and Samsung 850 PRO 512G SSD. Benchmark Application: SteamVR performance test. Radeon™ Pro WX7100 score: 6.1. Radeon™ Pro Duo (Polaris) score: 9.1. Performance Differential: (9.1-6.1)/6.1 = ~50% faster performance on Radeon™ Pro Duo (Polaris). PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. RPW-94

5. 24/7 support is only guaranteed in English.

Cautionary Statement

This press release contains forward-looking statements concerning Advanced Micro Devices, Inc. (AMD)including, the features, functionality, availability, timing, expected benefits of AMD future products including AMD's Radeon Pro Duo and Radeon Pro SSG professional graphics products, which are made pursuant to the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on current expectations and beliefs and involve numerous risks and uncertainties that could cause actual results to differ materially from expectations. Forward-looking statements are commonly identified by words such as "would," "intends," "believes," "expects," "may," "will," "should," "seeks," "intends," "plans," "pro forma," "estimates," "anticipates," or the negative of these words and phrases, other variations of these words and phrases or comparable terminology. Investors are cautioned that the forward-looking statements in this press release are based on current beliefs, assumptions and expectations, speak only as of the date of this press release and involve risks and uncertainties that could cause actual results to differ materially from current expectations. Material factors that could cause actual results to differ materially from current expectations include, without limitation, the following: Intel Corporation's dominance of the microprocessor market and its aggressive business practices may limit AMD's ability to compete effectively; AMD has a wafer supply agreement with GLOBALFOUNDRIES (GF) with obligations to purchase all of our microprocessor and APU product requirements, and a certain portion of its GPU product requirements, from GF with limited exceptions. If GF is not able to satisfy AMD's manufacturing requirements, its business could be adversely impacted; AMD relies on third parties to manufacture its products, and if they are unable to do so on a timely basis in sufficient quantities and using competitive technologies, AMD's business could be materially adversely affected; failure to achieve expected manufacturing yields for AMD's products could negatively impact its financial results; the success of AMD's business is dependent upon its ability to introduce products on a timely basis with features and performance levels that provide value to its customers while supporting and coinciding with significant industry transitions; if AMD cannot generate sufficient revenue and operating cash flow or obtain external financing, it may face a cash shortfall and be unable to make all of its planned investments in research and development or other strategic investments; the loss of a significant customer may have a material adverse effect on AMD; AMD's receipt of revenue from its semi-custom SoC products is dependent upon its technology being designed into third-party products and the success of those products; global economic uncertainty may adversely impact AMD's business and operating results; the markets in which AMD's products are sold are highly competitive; AMD may not be able to generate sufficient cash to service its debt obligations or meet its working capital requirements; AMD has a substantial amount of indebtedness which could adversely affect its financial position and prevent it from implementing its strategy or fulfilling its contractual obligations; the agreements governing AMD's notes and the secured revolving line of credit impose restrictions on AMD that may adversely affect its ability to operate its business; uncertainties involving the ordering and shipment of AMD's products could materially adversely affect it; the demand for AMD's products depends in part on the market conditions in the industries into which they are sold. Fluctuations in demand for AMD's products or a market decline in any of these industries could have a material adverse effect on its results of operations; AMD's ability to design and introduce new products in a timely manner is dependent upon third-party intellectual property; AMD depends on third-party companies for the design, manufacture and supply of motherboards, software and other computer platform components to support its business; if AMD loses Microsoft Corporation's support for its products or other software vendors do not design and develop software to run on AMD's products, its ability to sell its products could be materially adversely affected; AMD's reliance on third-party distributors and AIB partners subjects it to certain risks. Investors are urged to review in detail the risks and uncertainties in AMD's

Securities and Exchange Commission filings, including but not limited to AMD's Annual Report on Form 10-K for the year ended December 31, 2016.

Contact Information

Chris Hook
AMD Communications
512-578-9727
chris.hook@amd.com

Source: Advanced Micro Devices