AMD | STORIES

ENGINEER ULTIMATE HARDWARE FOR 3D CREATORS

schneider digital

Professional 3D-Hardware

INDUSTRY

Computing systems for graphically intensive engineering applications

CHALLENGES

Helping customers in the chemical, pharmaceutical, and automotive industries increase graphical rendering throughput and protect sensitive data in their workstations

SOLUTION

AMD Ryzen™ PRO processors with GuardMI's Transparent Security Memory Encryption deliver performance and data protection features that customers need

RESULTS

Schneider provides customers with solid computing platforms that improve processing workflows across multithreaded workloads.

AMD TECHNOLOGY AT A GLANCE

AMD Ryzen PRO processor

Schneider Digital specializes in the manufacture and distribution of tailor-made professional workstations and servers. Schneider is also a full-service provider for professional 4K, 3D, and VR systems, including special solutions for graphic-intensive applications, such as Geo-Information, CAx, architecture, science, medical, animation, film/TV, digital imaging, design, and CG.

Schneider Digital first adopted AMD's Ryzen™ PRO technology because of the powerful workstation-class performance, including up to 8 cores and 16 threads to accelerate demanding multithreaded workloads, and Transparent Security Memory Encryption (TSME). "Customers in the chemical industry, the pharmaceutical industry, and the automotive industry have sensitive data running on their workstations," said founder and managing director Josef J. Schneider. "Every feature that helps those customers protect their data is a good feature for us."

AMD Ryzen PRO processors offer no-compromise commercial-grade reliability and manageability to help IT pros avoid getting locked into proprietary solutions that can narrow choices, reduce features, and add cost. And Schneider Digital is delighted with the performance Ryzen™ PRO processors help their workstations deliver.

ENGINEERING ULTIMATE HARDWARE FOR 3D CREATIONS

"Based on our initial tests, I have already recommended the Ryzen™ PRO platform to two of our partners" Schneider stated. "The reason is that the features available on the Ryzen™ PRO, such as TSME and the ability to roll out BIOS updates to multiple machines at once, help us provide solid platforms that satisfy our customers and ensure that they have the same level of quality in the field as we do in our labs."

Schneider Digital field engineer David Eigenstetter agrees. "We have years of experience building one- and two-socket workstations with AMD products," he observed. "Now we're looking forward to incorporating new high-performance AMD devices especially for rendering stereoscopics and 3D animations."

Eigenstetter is also excited about AMD's new Ryzen™ PRO processors. "AMD's Ryzen™ PRO is setting a new direction in multithreaded applications and multithreaded CPU application performances," he said.

"TSME and the ability to roll out BIOS updates to thousands of machines at once help us provide solid platforms that satisfy our customers."

Josef J. Schneider
Managing director and founder, Schneider Digital

"We tested the Ryzen™ PRO 1700X processor with Cinebench R15 and Autodesk VRED 2018 Professional, which is a high-performance CGI renderer form Autodesk," Eigenstetter explained. "With Cinebench R15 we got very good results that completely crush Intel i7 processors and compete with entry-level Xeon processors, even with an Autodesk thread included."

The Ryzen PRO's powerful multi-threading feature also delivers unprecedented flexibility in thread management. "Thanks to SenseMI, which allows us to specify simply one or two cores to a specific part of rendering or a specific part of a project, we can have a better workflow and a better workload across all CPU cores," David Eigenstetter added.

Schneider Digital: Powering special solutions for graphic-intensive computer applications with AMD Ryzen PRO processors

ABOUT SCHNEIDER DIGITAL

Schneider Digital is a global operating full service solution provider for professional 3D-Stereo, 4 K- and VR/AR-Hardware. With more than 20 years of experience in this industry it has excellent connections to leading hard- and software producers, offering solutions for professional use. Schneider Digital claims to provide innovative and perfect hardware products and solutions with customised counseling and dedicated after sale services. Schneider's product portfolio comprises the right professional hardware solution for particular requirements in these fields: High resolution 4K monitors (UHD), 3D stereo and touch monitors with 4K resolution and sizes from 27" to 98", VR/AR-solutions, starting with desktop systems up to Powerwalls and multi-display-walls, professional graphics cards from AMD FirePro/Radeon Pro, performance workstations as well as innovative hardware-peripherals (Tracking, Interaction devices etc.). Schneider Digital produces it´s own Powerwall solution (smart VR-Wall) as well as passive 3D-stereo monitors (3D PluraView). For more information about Schneider Digital, visit www.schneider-digital.com.

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) www.amd.com website.