ENHANCED PERFORMANCE OF IGEL UD3

How AMD Ryzen™ Embedded R1505G System-on-Chip accelerates Teradici PCoIP Ultra™

IGEL's steadfast commitment to designing next-generation endpoint architecture is epitomized in the new IGEL UD3 endpoint device. IGEL's collaboration with AMD optimized the AMD Ryzen™ Embedded R1505G with Radeon™ Vega 3 Graphics to offer uniquely efficient operation and performance.

Optimized for Cloud Connectivity

IGEL UD3 is the first endpoint device to be optimized for cloud connectivity with the Teradici PCoIP Software Client for Linux, including the PCoIP Ultra™ feature set. The IGEL UD3 endpoint device takes advantage of the powerful AMD Ryzen™ Embedded R1505G SoC using the AVX2 instruction set or H.264/HEVC hardware decoding options. Teradici PCoIP Ultra™ accelerates the decoding processes on the client, improving user experience by providing a smoother display of any moving graphics on the host machine, even in high resolution. The IGEL UD3 can support two 4K displays, providing enhanced productivity for users requiring large amounts of dynamic, visual information with minimal latency and high security.

The PCoIP Ultra™ enhancement has been supported by IGEL OS since June 2019, and uses an expanded array of encoders on the host, enabling the choice of the most efficient hardware or software codecs according to content characteristics. This flexibility results in a faster, more interactive experience for users of remote desktops working with high-demand graphics applications, including those working in visual effects, computer aided design (CAD), animation, simulation and modeling, broadcast video, financial trading, or medical imaging.

With PCoIP Ultra™ and the UD3, end-users benefit from greater flexibility of choice with the ability to securely connect with Teradici Cloud Access Software for a rich, high-fidelity user experience to any cloud or private data center, including Amazon WorkSpaces and AWS, Microsoft Azure and WVD, and Google Cloud.

Furthermore, the optimization of the AMD Ryzen™ Embedded R1505G SoC on IGEL UD3 empowers users to achieve a secure, high performance computing experience in cloud and VDI workspace environments across all industries.
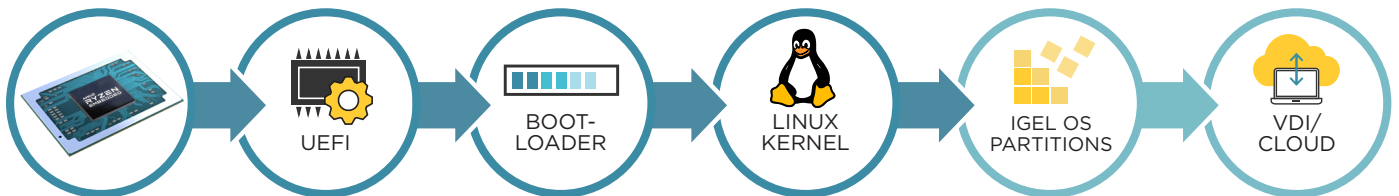
Maximum Energy Efficiency

To conserve energy consumption, IGEL took this extra step with AMD to ensure consistently low power usage on the UD3. This specific SoC variant runs on a lower thermal design power (TDP) of 10 watts at 2.0GHz up to 2.7GHz boost frequency as opposed to the standard 12–15 watts while maintaining its maximum performance, thereby reducing energy costs and environmental impact. IGEL is the only endpoint device manufacturer to take this extra measure with AMD.

AMD Secure Processor

IGEL's next-generation architecture in the UD3 combines AMD Secure Processor hardware-based security with an extensive set of OS-level security measures to ensure system integrity at all times. The IGEL UD3 with the AMD Ryzen™ Embedded R1505G SoC is capable of providing an end-to-end "chain of trust" starting at the processor level, checking UEFI authenticity before proceeding to the next steps to ensure system-wide integrity all the way to the server or cloud platform. This innovative security framework validates each discrete step of the endpoint boot and workspace execution processes.

IGEL Chain of Trust starts at the processor level with AMD Secure Processor

| | UEFI | BOOT-LOADER | LINUX KERNEL | IGEL OS PARTITIONS | VDI/CLOUD |

IGEL
next-gen
EDGE OS
for cloud workspaces