The RightXpress® 4K Ultra High Definition Video Server is specifically designed for multi-stream high speed video delivery to UHD devices on an aircraft. Server hardware is capable of processing up to 10 simultaneous video streams to a variety of output devices in formats ranging from 720p up to 2160p (4k). Provided API allow for video stream manipulation in multiple source windows to support window movement for stacking or tiling (supporting Picture in Picture), sizing, scaling, panning, and alpha blending adjustments.

Stored video up to 4k resolution or streaming 1080p video sources can be delivered at full 60 frames per second over six SDI cables in a variety of configurations. Two 6-G SDI cables can be synchronized to display one 4K image, or four 3G-SDI cables synchronized for one 4K image. SDI cables produce the best quality picture possible for displays running at 60Hz. Using SDI copper as a medium allows the RightXpress server to deliver noise-free quality over a much greater distance – as much as 10x longer than HDMI2. The system can also be configured to support up to 6 displays at 1080p.
Your Innovative Electronics Design and Manufacturing Partner

Why Choose RightHand Technologies as your Video Electronics Provider?

- Access complete solutions, including hardware, software, mechanical engineering and manufacturing.
- Enjoy the flexibility to purchase boards in volume for manufacturing, or in smaller quantities for prototype development.
- Benefit from our engineers’ extensive experience in embedded applications and video solutions.
- Extensive experience in DO-160 and DO-178 certified designs.
- Engineering AND Manufacturing both conveniently located in Chicago Illinois.

About RightHand Technologies

RightHand Technologies provides expert engineering design services, specialized manufacturing, and sophisticated full-validation functional testing for FAA certified embedded electronic systems. We have designed inflight entertainment systems (IFE), cabin management systems (CMS) and security systems for leading aviation clients.

Founded in 2002 and headquartered in Chicago IL, RightHand Technologies is focused on aerospace and military electronics, building dozens of products that require ruggedized designs and DO-160/DO-178 certification.

RightHand Technologies proven expertise is taking complex electronic system requirements from concept through design of hardware, mechanical and software, then into qualification and specialized manufacturing in order to create released products that can pass rigorous agency approvals.

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