

N Newsletter

EON Instrumentation Ships First ADV-DP-25 for NASA X-59

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Eon Instrumentation delivered the first high-speed dual-redundant DisplayPort active switcher/converter to NASA for their new X-59 QueSST program. The DP-25 unit has two DisplayPort 2160p60 inputs that are actively switched to one DisplayPort 2160p60 output with mirrored outputs of SDI 2160p30 (x1), SDI 1080p60 (x2), and NTSC (x1). The main video PCB receives the redundant DisplayPort signals with input 1 set as primary and detects any loss of this primary signal before immediately switching to backup input 2. In order to process this change quickly enough to keep the end-user monitor from losing signal, Eon developed firmware for the internal FPGA to send a test pattern for the sub-millisecond switching time in order to keep a sync signal on the monitor. In parallel to this active switching DP output, the unit also converts the output to mirrored 6G-SDI, 3G-SDI (x2), and NTSC outputs for secondary monitor and recording purposes. The ADV-DP-25 unit is fully qualified to Environmental and EMI MIL specs DO-160, 461, 704, and 810.



NASA's X-59 QueSST (Left) and Eon's ADV-DP-25 (right)

About Eon Instrumentation – Since 1961

Eon is a veteran owned multi-million dollar business that designs and manufactures military qualified products for airborne, shipborne, and ground vehicle platforms. These products include Analog and High Definition Digital Video Systems (splitters, converters, selectors, cameras, monitors and recorders); Interference Blanker Units; Rugged Power Supplies; Audio Amplifier Systems; and System Engineering Programs.

Eon Instrumentation and Covid-19

As an essential business, Eon Instrumentation has been working tirelessly to provide support and continued on-time shipments to its customers, all while implementing safe practices in the workplace. By providing a floor-plan that allows for social distancing and masks for all employees, Eon has been able to move forward with on time deliveries, quality product, and new engineering business during these unprecedented times.



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