

ACE IN THE HAND FOR STANAG3910

The latest ACE family of test and simulation cards from AIM offers PXIe users and platform providers with support for MIL-STD-1553, ARINC429, AFDX/ARINC664P7 and now STANAG3910/EFEX databus communications. Model ACE3910-3U-1 is the latest member of AIM's family of PXIe cards supporting STANAG3910/EFABus Express (EFEX) communications.

It concurrently operates as the bus controller, multiple remote terminals, and the chronological/mailbox bus monitor with one fully independent dual-redundant STANAG3910 high-speed and low-speed interface. Protocol testing and simulation of STANAG3910 LS/HS functions can operate at full bus loads. The ACE3910-3U-1 incorporates full protocol error injection and detection; it

also allows for reconstruction and replay of previously recorded electrical/optical STANAG3910 bus traffic to the LS/HS databus with high timing accuracy.

The ACE family of avionics databus communication cards use AIM's field-proven, common-core hardware design and use a powerful system-on-chip approach, including programmable logic and a multicore processor architecture. Two real-time processor cores act as the bus interface units and a further core as the application support processor running an onboard Linux operating system.

ACE cards incorporate support for the PXI instrumentation bus with triggering and system clock capabilities. An onboard IRIG-B time decoder and generator enables



synchronization of multiple ACE cards, with the IRIG-B source being an external IRIG-B time source, or the onboard time code generator of one ACE card as the reference.

A complete documentation package and driver software for Windows, LabVIEW VI, LabVIEW RT and Linux is included to accomplish an out-of-the-box, smooth integration with any PXIe platform.

The industry standard PBA, pro test and analysis software for Windows and Linux is also available as an option with the ACE family of test and simulation cards. \\

FREE READER INQUIRY SERVICE

AIM

To learn more about this advertiser, visit www.ukimediaevents.com/info/tea NOW!

READER INQUIRY 109

HIGH-SPEED CAMERAS FOR MILITARY TESTS

The high-speed cameras of AOS are widely known for their reliable functionality under the most severe environmental conditions, as experienced in real-world military tests. These specifications make the cameras the ideal choice for mounting in, or attaching to aircraft.

The cameras can record multiple sequences, store data in the camera's built-in, non-volatile memory, and download data instantly to the optional flash cards. The data collected provides an excellent basis for subsequent quantitative and qualitative motion analysis in the lab.

AOS cameras are designed according to MIL 810 standard and built to meet the challenges of inflight image data recording.

All cameras are available with different types of MIL-specified connectors for ease of integration into existing aircraft wiring. The cameras comply with GigE Vision standards and can record in standard speed ranges, as well as in high-speed camera mode. If the application requires it, AOS can provide a special enclosure for the camera, specific software functions, and last but not least, the extension of functionality that is vital for the test setup. Lastly, AOS can support these solutions over the full lifespan. \\

FREE READER INQUIRY SERVICE

AOS

To learn more about this advertiser, visit www.ukimediaevents.com/info/tea NOW!

READER INQUIRY 110

