

Paris, June 20th, 2011 - The CAN Aviation Alliance, a transatlantic consortium for the application of Controller Area Network (CAN) in all areas of aeronautics has created a full line of test products for the **ARINC825** standard. Based on advanced embedded computer technology, the PMC825, PowerNECS and CANflight systems designed by ICS, Inc. interface to several (between 2 and 8) CAN networks at the same time.



While the PMC825 is a plug-in computer board, the embedded PowerNECS and CANflight systems are designed for airborne use and provide a self-contained flight data recording function which allows to store several hours of ARINC825 data on MicroSD card.



CANflight ARINC825/CANAerospace Interface

Wetzel Technology's eXtended CAN Tool (XCT) delivered with PMC825, PowerNECS and CANflight connects to these systems using Gigabit Ethernet or IEEE 802.11 Wireless LAN. XCT includes powerful data visualization and network analyzing capabilities together with an ARINC825 profile analyzer/editor and provides split-microsecond time resolution for data acquisition and generation. The XCT toolbox runs on Linux, MacOS and Windows operating systems and already supports the brand new "-2" version of ARINC825. The CANflight system is laptop-ready and may be powered over a standard USB cable to create an integrated and portable ARINC825 test unit.

The ARINC825 over Ethernet (A825oE) protocol, developed by Stock Flight Systems serves as the communication standard between host computers and the PMC825, PowerNECS and CANflight systems. A825oE is fully compatible with CANaerospace over Ethernet (CoE) and accompanied by CANaerospace over Wireless LAN (CoW) and ARINC825 over Wireless LAN (A825oW). The integration of CoW and A825oW with iPad and iPhone devices will be available soon.

"With A825oE, we have made a leap forward to minimize the effort of interfacing to ARINC825 networks. This standard is a key element in mastering complex, distributed ground and flight test installations." says Michael Stock, president of Stock Flight Systems.

A825oE conveys the ARINC825 realtime network information over Ethernet in both directions and ensures end-to-end latencies of less than 3 milliseconds over the entire communication path. The optional use of an IRIG-B time code signal allows recorded flight data to be time synchronized with other data sources. The generic host software to interface with A825oE which comes with these systems is delivered in full source code and has successfully been compiled and tested under numerous operating systems including Linux, VxWorks, Solaris, MacOS and Windows.

An A825oE installation together with a CoW driven flight simulator is shown at the combined Reiser Systemtechnik and Stock Flight Systems **stand D341 in hall 2C** during Paris Air Show.

The CAN Aviation Alliance, originally founded by Innovative Control Systems, Inc. of Phoenix/Arizona, Stock Flight Systems of Farchach/Germany and Wetzel Technology of Putzbrunn/Germany delivers CAN products and services for ground and airborne systems. The CAN Aviation Alliance is the leading authority for the international aviation CAN standards CANaerospace and ARINC825 and also offers engineering services and on-site training courses.



www.arinc825.com
www.wetzel-technology.de

www.canaerospace.net
www.icsaero.com

www.stockflightsystems.com
www.paris-air-show.com