

Test tool for modern avionics systems

With several aircraft now under development and utilizing a variety of different data buses and data networks the task of avionics integration and testing has grown to become even more complex and challenging. A typical example is that of the Airbus Industries A400M Military Transport Aircraft. The A400M will use a combination of databuses and networks including MIL-STD-1553B, ARINC429 and AFDX (Avionics Full Duplex Switched Ethernet). The challenge is to integrate and test avionics architectures which now use a variety of data bus types on a single aircraft platform.

To meet the ever changing challenges of the aircraft integrators, black box makers and in service users, AIM GmbH of Freiburg, Germany has launched its third generation PBA.pro™ databus analyser and visualiser software supporting MIL-STD-1553, STANAG3910/EFEX, ARINC429, AFDX/ARINC664, PANAVIA serial links and fibre channel applications for use with its family of high performance test and simulation



modules. AIM will use this expertise and experience to provide a technically superior and cost efficient Avionics Test Tool for modern avionics systems. The PBA.pro will replace the current generation of Databus Analyser/Visualiser software plus adding many new capabilities and features with a 'Cool' looking interface.

Joachim Schuler, head of soft-

ware developments at AIM said: "The PBA.pro is a modular, scalable and integrated software system covering a wide range of applications from a stand-alone databus analyser to a complete systems integration and test bench facility. The PBA.pro unifies all the experiences and current features of our existing analyser products into one package being a component-based

software designed to be multi-platform capable supporting both Windows and LINUX PC platforms. Furthermore the new PBA.pro has embedded scripting capabilities and visualisation features invoked via user defined displays/panels. Users can also write customer specific components to support seamless integration of customer or system specific extensions offering different levels of PBA.pro customisation."

AIM's experience on similar projects like the Eurofighter and A380 have shown that both the prime contractors and sub-contractors are moving towards a strategy to reduce costs by standardisation and commonality.

AIM has direct sales and support offices in Germany, UK and the USA and works in conjunction with a network of exclusive Representatives worldwide, who together, provide expert technical support for all AFDX/ARINC664 applications.

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