

AIM GmbH

Avionics testing built to the highest standards

AIM designs and manufactures powerful Test and Simulation Modules, Databus Analysers and systems for advanced MIL-STD-1553, STANAG 3910/EFEX, ARINC 429, AFDX/ARINC 664, Gigabit AFDX/Ethernet, ARINC825 (CAN), Fibre Channel, PANAVIA Serial Link and MIL-STD-1760 applications. The company's products are built to the highest quality standards and are used by leading defence and aerospace companies around the globe.

AIM's modules are supplied in PMC, PC-CARD, PCI/PCI-X, CPCI, PXI, VME and VXI card formats. They are designed using a unique "Common Core" hardware approach that integrates multiple bus/network channels, multiple RISC processors, an on-board Application Support Processor (ASP), large on-board memory resources and an IRIG-B Time Code Encoder/Decoder, all on the module level. For embedded applications, AIM supplies MIL-STD-1553 and ARINC 429 PMC cards compliant with ANSI/VITA20-2001(R2005) standards having Conduction Cooling, Rear I/O and Conformal Coating options operat-



ing from -40°C to +85°C. All modules are delivered with full function Driver Software and support for operating systems such as Windows 2000/XP/Vista, Linux, LabVIEW/VI's, LabVIEW/CVI's and LabVIEW RT. For VME users, AIM provides the source code in C/C++ for integration into target systems using VxWorks, QNX, LynxOS, Integrity and others. AIM's software interface has one common API (Application Program-



ming Interface) which allows customers to re-use their application software across various hardware platforms. Latest hardware developments comprise Gigabit AFDX/Ethernet (PCI/PCI-X) and ARINC825 (PMC) modules. Also available is a new line of 3U Compact-PCI cards for STANAG 3910/EFEX, MIL-STD-1553 and ARINC 429, fully supporting the PXI Standard.

AIM's PBA.pro™ Databus Test and Analysis software is a new generation of software having a Modular, Scalable and Integrated approach for use with AIM's family of high performance test and simulation modules. PBA.pro™ is a powerful yet cost effective software system covering a wide range of applications from a stand alone databus analyser to a complete systems test bench or advanced avionics integration facility. The PBA.pro™ software runs on both Windows™ and Linux™ platforms and integrates several functions and features into one software product, which specifically focuses on avionics test, development, simulation and monitoring applications. PBA.pro™ incorporates low-level databus analyzer and protocol testing features known from AIM's legacy databus analyzer products, but with additional functions, features, capabilities and concepts of the

PBA.pro™ which are unique to AIM. PBA.pro™ uses an elegant "component based" software approach, allowing users to configure and customize a solution by selecting the required hardware and software resources/components within one common framework. PBA.pro™ components include that of I/O resources, display/designer resources, script and test manager resources, database manager resources and "user specific" resource components. The entire system can be set up remotely via scripts and the storage of the PBA.

pro™ information uses the industry standard XML format.

The PBA.pro™ offers scripting, display building and the visualization of data using a variety of default displays and controls that can be interactively created within a panel. Various levels of customization can be achieved via scripts, panels, user-specific components and widgets with the seamless integration into the PBA.pro™ framework.

Automated test packages PBA.pro-SCR-PTP-E and PBA.pro-SCR-PTP-P are available to support electrical and protocol testing requirements defined in the SAE AS4112 RT Production Test Plan. The latest add-on to PBA.pro™ is an ARINC 825 (CAN) component to control AIM's new generation AMC825 Interface, a four-channel CAN bus PMC Module for Test & Simulation of Avionic CAN bus systems.

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