

# AIM GmbH

## Avionics Testing Built to the Highest Standards

With more than 20 years in the business, AIM GmbH is a leading designer and manufacturer of high quality and advanced avionics test & simulation modules, embedded interfaces, databus test & analysis software, data loaders and system solutions for MIL-STD-1553, STANAG3910/EFEX, ARINC429, AFDX/ARINC664, Gigabit Ethernet, ARINC825 (CAN bus), PANAVIA Serial Link & Fibre Channel applications. With our broad customer appeal, AIM's products are used by the worlds leading defence and aerospace companies.

AIM's modules are supplied in PC104+, PMC, PC-CARD, PCI/PCI-X, cPCI/PXI, VME and VXI card formats. The advantage is, they are designed using a unique "Common Core" hardware approach that integrates multiple bus/network channels, multiple RISC processors, an onboard Application Support Processor (ASP), large onboard memory resources and an IRIG-B Time Code Encoder/Decoder right on the module. For embedded applications, we supply MIL-STD-1553 and ARINC429 PMC cards compliant with ANSI/VITA20-2001(R2005) standards having Conduction Cooling, Rear-I/O and Conformal Coating options operating 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/VIs, LabWindows/CVIs 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 Programming Interface) which allows customers to re-

use their application software across various hardware platforms, maintaining the software investment.

Demand for PXI and CompactPCI based solutions in the testing market has pushed the development of high performance intelligent interface cards to provide high performance solutions for aerospace applications. In support of this growing demand, AIM has introduced the world's first true PXI/cPCI 3U card designs, which implement support for the PXI instrumentation bus.

PXI modules are compatible with PBA.pro™, AIM's New Generation Databus Test & Analysis Tool. PBA.pro™ covers a wide range of applications from a stand alone protocol analyser to a complete systems test bench or advanced avionics integration facility. PBA.pro™ supports single or multiple AIM avionics interfaces and 3rd party hardware resources within a single powerful application. The PBA.pro™ software runs on both Windows and Linux platforms. Various levels of customization can be

achieved via scripting, display building or even user-specific components and widgets with the seamless integration into the PBA.pro™ framework.

The latest add-on to AIM's wide range of avionics interfaces is the all new AMC825-4, a highly flexible and powerful PMC card for advanced test, simulation and monitoring of up to four ARINC825 (CAN bus) channels for avionics applications. The AMC825-4 features four electrically isolated CAN High-Speed interfaces with onboard intelligence and time stamping with an IRIG-B interface. The AMC825-4 card can easily be installed on our family of PMC to PCI, cPCI (3U and 6U) or VMEbus Carrier Cards supporting a broad range of

card formats.

For analyser and system applications a PBA.pro-CAN resource component is available to manage and visualize AMC825-4 (CAN bus) interfaces within PBA.pro™.

**Avionics Databus Solutions**  
www.aim-online.com

20 YEARS  
1989 - 2009  
AVIONICS TESTING

PBA.pro

PXI

Three new modules have been released: ACX3910-3U-1, ACX1553-3U-1/2/4 and ACX429-3U-4/8/16 for STANAG3910/EFEX, MIL-STD-1553 and ARINC429 applications. ACX-3U modules are members of AIM's "Next Generation Common Core" architecture and are functional and compatible successors of the ACI Common Core family. As true PXI solutions, ACX-3U modules provide full Instrumentation Bus support compliant with PXI-Specification Revision 2.2. ACX-3U modules can be used in standard CompactPCI (3U) slots, legacy PXI slots and PXI hybrid slots.

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