Avionics Databus Solutions

MIL-STD-1553
STANAG3910/EFEX
ARINC429
AFDX®/ARINC664P7
ARINC825 (CAN bus)
Fibre Channel/ARINC818
Company Profile
With more than 27 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 complete system solutions.

AIM has offices in the UK and USA with the main design and manufacturing facilities based in Freiburg, Germany.

Our full service technical web site offers a powerful Download Area providing online product updates and a full documentation service.

AIM markets and supports its products through qualified and authorised representatives worldwide.

AIM offers the complete solution for
- MIL-STD-1553,
- STANAG3910/EFEX,
- ARINC429,
- AFDX®/ARINC664P7,
- ARINC825 (CAN bus),
- Fibre Channel/ARINC818

applications like:
- Design & Development
- Embedded Interfaces
- Test & Integration
- Production Testing
- Validation/Conformance/EMC Testing
- Trials & Analysis
- Data Loading
- In-Service Support & Maintenance

With our broad customer appeal, AIM’s products are used by the world’s leading defence & aerospace companies.

AIM’s PBA.pro™ Databus Test & Analysis Software offers a new generation design to cover 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 framework.

AIM provides turnkey customised system solutions based on PBA.pro™ and AIM modules being at the core of the system.

Full documentation, design reviews, project management, installation, training and long term support contracts ensure our clients’ success.

Included with the AIM solution is responsive and expert pre and post sales, technical support and service. Our qualified and experienced team of application engineers is on hand to help you with the use and integration of any AIM product or system.

ISO 9001 CERTIFIED

Our products are designed and manufactured to the highest quality and our procedures certified to ISO9001 and in accordance with AS9100 Rev. C respectively EN9100.

Our quality system is our management tool in order to optimise and continuously improve relevant quality processes and guidelines within AIM. Quality is our AIM!
AIM’s innovative, unique and successful ‘Common Core’ hardware design set new standards for onboard intelligence and performance when introduced to the market in 1998. Since then, further generations and evolutions of the Common Core approach have been introduced, offering improved performance, higher channel density, lower power consumption, the migration to smaller form factors as well as the support of new avionics bus and network communication standards. Maintaining full functionality and compatibility to the previous generations of products is a high priority requirement for any new generation of AIM interface products.

The latest generations of the Common Core design which are incorporating SoC (System on Chip) hardware components are addressing today’s and tomorrow’s needs for smart and intelligent interface types, up to portable devices with standalone capability.

The AIM hardware design includes the flexibility and growth potential for our clients to maximise their investment over an extended life cycle of any AIM product.

Versions with extended temperature range, conduction cooling, Rear-I/O and conformal coating can be provided for embedded and military applications. AIM’s philosophy is to introduce new form factors in line with emerging standards and market demands to supply our large installed customer base.

For fast and effective product integration AIM includes with the supply of our modules full function driver software for a variety of operating systems:

- Windows including .NET support
- Linux (32/64-bit versions)
- LabVIEW/VI’s, LabVIEW/RT
- VxWorks
- others on request

A Board Software Package (BSP) includes the required drivers, user’s manuals and example code to ease the development and integration task.

**Common Core Advantage:**

- Onboard Application Support Processor (ASP) on SoC basis with additional peripheral interfaces provisions
- Multiple Bus Interface Unit (BIU) Processors
- Host backplane Bus Master Capability
- Deterministic Timing and hard realtime capabilities onboard
- ASP Software running under LINUX OS
- Common Application Programming Interface (API) – easily portable between Hardware Platforms
- Flash the Firmware for in-field Updates – latest Versions available from Web Site ‘Download Area’
- Compatible with PBA.pro™ Databus Test & Analysis Tool and AIM DataLoader Applications
MIL-STD-1553

AIM's MIL-STD-1553 modules provide up to 8 dual redundant buses on a single card and operate concurrently as Bus Controller, Multiple Remote Terminals (31) and Chronological/Mailbox Bus Monitor.

**Supported Form Factors**

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<th>PCIe</th>
<th>PMC</th>
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**Common features:**

- Comprehensive Onboard Processing
- Protocol Error Injection/Detection
- Large Scale Global Memory
- IRIG-B Time Encoder/Decoder for Time Tagging
- General Purpose Discrete I/O's
- Real Time Recording & Physical Bus Replay
- Multi-Level Triggering for Capture/Filtering
- Single Function/Simulator Only Versions available
- Application Programming Interface and Driver Software Support included

**Databus Test & Analysis Software:**

MIL-STD-1553 resource components (PBA.pro-MIL) and database components (PBA.pro-1553-DBM) are available for the PBA.pro™ Databus Test and Analysis Tool to support single or multiple MIL-STD-1553 modules with BC, Multi RT Simulation, Bus Monitoring/Recording and Physical Replay functionality.

**Special features:**

- Optional Scripting Packages to support Electrical and Protocol Tests of AS4112 RT Production Test Plan and Protocol Tests of AS4111 RT Validation Test Plan
- Built-In Feature for Graphical Visualisation of Simulated and Monitored Traffic
- Statistical Analysis and Message Resolving Features of Chronologic Traffic
- Support Generation of BC Simulations based on Monitored Traffic
- Import of legacy PBA-2000 Setup and Recording/Replay Files

**Unique features:**

- MILScope™ Option for MIL-STD-1553 electrical Waveform Verification
- Execution of Onboard Customer Applications, Python Scripts and PBA.pro Engine via the ANET Onboard LINUX OS
STANAG3910/EFEX

AIM’s STANAG3910/EFEX modules provide 1 or 2 dual redundant HS/LS buses on a single card (with onboard Fibre Optical Front End or Electrical Front End) and operate concurrently as HS/LS Bus Controller, Multiple Remote Terminals (31) and Chronological/Mailbox Bus Monitor.

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**Common features:**

- Comprehensive Onboard Processing
- Protocol Error Injection/Detection
- Large Scale Global Memory
- IRIG-B Time Encoder/Decoder for Time Tagging
- General Purpose Discrete I/O’s
- Real Time Recording & Physical Bus Replay (electrical and optical)
- Multi-Level Triggering for Capture/Filtering
- Support for Direct Digital Links (DDL’s) and Fibre Optic DDL (FODDL)
- Versions available with Onboard Electrical Front End (for Rafale)
- Single Function/Simulator Only Versions available
- Application Programming Interface and Driver Software Support included

**Unique feature:**

- Execution of Onboard Customer Applications, Python Scripts and PBA.pro Engine via the ANET Onboard LINUX OS

**Databus Test & Analysis Software:**

STANAG3910/EFEX resource components (PBA.pro-STANAG) and database components (PBA.pro-STANAG-DBM) are available for the PBA.pro™ Databus Test and Analysis Tool to support single or multiple STANAG3910/EFEX modules with BC, Multi RT Simulation, Bus Monitoring/Recording and Physical Replay functionality.

**Special features:**

- EFA/EFEX Switching on the fly
- Built-In Feature for graphical Visualisation of simulated and monitored Traffic (LS and HS)
- Built-In Support for Control of CTX Hardware Features
- Support for Resolving monitored Transactions to user definable Identifiers/Names
- Support Generation of BC Simulations based on monitored Traffic
- Import of legacy PBA-3910 Setup and Recording/Replay Files
- Optional Scripting Package to support Protocol Tests of EFAbus RT Production Test Plan
ARINC429

AIM’s ARINC429 modules provide up to 64 ARINC429 channels on a single card, individually programmable as Transmitter or Receiver channels for high speed or low speed transmission rates.

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**Common features:**
- Comprehensive Onboard Processing
- Software Programmable Tx or Rx Channels with High/Low Bit Rate
- Cyclic/Acyclic Label Transmission
- Protocol Error Injection/Detection
- Large Scale Global Memory
- IRIG-B Time Encoder/Decoder for Time Tagging
- General Purpose Discrete I/O’s
- Real Time Recording & Physical Bus Replay (synchronised across Channels)
- Multi-Level Triggering for Capture/Filtering
- Support for Loop/Pollution Mode
- Application Programming Interface and Driver Software Support included

**Unique feature:**
- Execution of Onboard Customer Applications, Python Scripts and PBA.pro Engine via the ANET Onboard LINUX OS

**Databus Test & Analysis Software:**

ARINC429 resource components (PBA.pro-ARINC429) and database components (PBA.pro-ARINC429-DBM) are available for the PBA.proTM Databus Test and Analysis Tool to support single or multiple ARINC429 modules with Transmitter/Receiver Simulation, Bus Monitoring/Recording and Physical Replay functionality.

**Special features:**
- Compatible Database with Engineering Unit Definition of ARINC429 Standard Labels and Equipment ID’s. Available as an ‘App’ for free download via web
- Support for Loop/Pollution Mode of Interface Modules
- Scripts for Database Import of Airbus ICD

**Unique Software solution for Data Loading/ARINC615-3/4:**
- EasyLoad-429, ready to use ARINC615-3/4 DataLoader software package for AIM’s ARINC429 cards.
AIM’s AFDX®/ARINC664P7 modules provide up to 4 AFDX® ports (2 dual redundant AFDX® channels) on a single card and operate concurrently in traffic simulator or receiver/monitor modes.

**Supported Form Factors**

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**Common features:**

- Comprehensive Onboard Processing
- Programmable Ports for Single or Dual Redundant Operation
- Generic, UDP Port oriented or Replay Transmit Mode
- Chronological or UDP/VL oriented Receive Mode
- Protocol Error Injection/Detection
- Large Scale Global Memory
- IRIG-B Time Encoder/Decoder for Time Tagging
- Multi-Level Triggering for Capture/Filtering
- Variants available with Boeing specific EDE extensions
- Application Programming Interface and Driver Software Support included

**Databus Test & Analysis Software:**

AFDX®/ARINC664P7 resource components (PBA.pro-AFDX®) and database components (PBA.pro-AFDX®-DBM) are available for the PBA.pro™ Databus Test and Analysis Tool to support single or multiple AFDX®/ARINC664P7 modules with Tx/Rx E/S Simulation, Generic Tx Modes, Network Monitoring/Recording and Physical Replay functionality.

**Special features:**

- Support for REROS (Re-Routing and Pollution) Mode of Interface Boards
- Full support for fdXTap with Receiver Features identically to the Interface Boards
- Import of legacy fdXplorer Setup Files
- Scripts for Database Import of Airbus ICD
- Support for Boeing specific extensions
- Optional Script Packages for ARINC664P7 End System and Switch and Switch Compliance Testing available

**Unique Hardware solutions:**

- Redundancy Management/Handling, Traffic Shaping Simulation/Verification onboard
- compatible to μAFDX®
- fdXTap, USB based AFDX®/ARINC664P7 Network Tap and Monitoring Box for 2 full duplex Network Links

**Unique Software solution for Data Loading/ARINC615-A:**

EasyLoad-615A, ready to use ARINC615-A DataLoader software package for AIM’s AFDX®/ARINC664P7 cards or standard Ethernet incl. ARINC665 Media Set Generating Function.

* AFDX® is a registered trademark of Airbus
ARINC825 (CAN Bus)

AIM’s ARINC825 (CAN bus) modules provide up to 4 ARINC825 (CAN bus) channels on a single card and operate concurrently as Transmitter or Receiver channels.

**Supported Form Factors**

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<th>PCIe</th>
<th>cPCI</th>
<th>USB</th>
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**Common features:**

- FPGA based CAN Controllers
- Additional 32-bit Microcontroller inside FPGA (Application Support Processor)
- Support of 11-bit and 29-bit CAN ID’s (in accordance with CAN 2.0B specification)
- Cyclic/Acyclic ID Transmission Mode
- Full Receiver or Listener Mode
- Chronological (FIFO) and ID oriented (Object) Receive Mode
- Protocol Error Detection
- IRIG-B Time Decoder for Time Tagging of CAN frames with 1µs resolution
- Application Programming Interface and Driver Software Support included
- PMC Variants for Conduction Cooling and Extended Temperature Range available

**Databus Test & Analysis Software:**

ARINC825 (CAN bus) resource components (PBA.pro-CAN) are available for the PBA.pro™ Databus Test and Analysis Tool to support single or multiple ARINC825 (CAN bus) modules with Receiver, Transmitter Simulation and Monitoring/Recording functionality. Resource components include database manager functions for engineering unit conversion.

**Special features:**

- Database Support for Decoding of CAN ID related Payload included in the Resource Component
- Activity Display for CAN ID’s
- Support for ARINC825 interpretation of the 29-bit ID’s
- Scripts for Database Import of Airbus ICD
Fibre Channel/ARINC818

The Fibre Channel modules from AIM GmbH provide up to two ports on a single interface card, offering data generation/simulation and monitor/analyser functions.

Supported Form Factors

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<tr>
<th>Form Factor</th>
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<th>PMC-to-PCIe</th>
<th>XMC-to-PCIe</th>
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<tr>
<td>APS-FC-1/2</td>
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<td>APS-FC-2</td>
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Common features:

- Simulation and Monitoring of FC-2 compliant network traffic for data rates up to 4GFC
- Support of ARINC818, FC-AE-RDMA, FC-AE-ASM, FC-AE-1553, and AS5653 Upper Layer Protocols (ULP)
- Onboard IRIG-B Time Encoder & Decoder with 10ns resolution for Time stamping
- 4 Trigger Inputs & 4 Trigger Outputs
- Network TAP functionality for analysing traffic in Real-Time and inline between two attached FC Ports

Databus Test & Analysis Software:

The PBA.pro-FC component handles single or multiple Fibre Channel resources providing access to all Capture and Send Ports with Network Databus Analyser functions and Upper Layer Protocol support.

Special features:

- FC2 and ULP traffic Simulation for ARINC818, FC-AE-RDMA, FC-AE-ASM, FC-AE-1553, and AS5653
- Realtime traffic visualisation and capturing
- Decoding of captured Frames of FC1, FC2 & FC4 Layers
- Extended ULP message decoding (e.g. decoding and display of video images in ARINC818 ULP mode)
- Flexible frame generation with full control over all FC frame bytes & parameters (e.g. direct setup of video image transmission in ARINC818 ULP mode)
- Database Manager Component to support Engineering Unit Conversion

Application Programming Interface for C/C++ and LabView as well as Driver Software Support for Windows and LINUX included.

Carrier

To complement the wide range of interface modules for dedicated Avionics Databuses and Networks, AIM offers a range of Carrier modules for the use of AIM or any 3rd Party PMC and XMC module on various back-planes.
AIM offers XMC based (AXE1553-x and AMCE1553-x) as well as as PMC based (AMCE429-x and AMCE429-x) interface boards. These modules are designed with the below features, making them an ideal solution for harsh environments.

- Low Power Dissipation
- Extended Temperature Range from -40° to +85°C
- Conduction Cooling
- VITA 47 Shock and Vibration Qualification
- XMC or PMC Rear-I/O
- Avionics Level Discretes
- Trigger I/O

Provisions for inhibiting transmitter functions and disabling error injection are supported. Conformal coating is available as an option.

1, 2 or 4 dual redundant MIL-STD-1553 buses can be handled by the AXE1553-x/AMCE1553-x and 4, 8, 16 and 32 ARINC429 channels by the AXE429-x/AMCE429-x.

The AIM ANET devices for MIL-STD-1553, ARINC429 and mixed protocol (MIL-STD-1553 and ARINC429) can optionally be offered in a rugged housing.

With a rugged housing and sealed standard connector types for all ANET I/O signals, the Ethernet based AIM ANET interfaces can be used for more rugged applications. A wide range 9…36VDC power supply input per default allows the use in avionics typical 28VDC environment. The devices can optionally be offered with a MIL-STD-704 compliant power supply input.

All standard ANET auxiliary signals like Discretes, Trigger I/O, IRIG-B as well as a general purpose USB2.0 port (to host USB devices) are available for the rugged version.

The rugged ANET can be offered in various configurations with up to 2x MIL-STD-1553 and 16 ARINC429 Channels (max. 12 ARINC429 Channels for the mixed protocol ANET variant). Customised connectors (e.g. circular types) can be offered on request.

The ANET-MxAy offers mixed protocol support, combining MIL-STD-1553 and ARINC429 data bus test and simulation capabilities in one ANET device.

Mixed Protocol ANET modules can be offered in various configurations with up to 2x MIL-STD-1553 and 12 ARINC429 channels. Rugged variants are available as well.

The MIL-STD-1553 section offers concurrent Bus Controller, Multiple RT Simulator (31) with Mailbox and Chronological Monitor functions.

All ARINC429 channels are fully software programmable for Tx/Rx mode as well as low (12.5kBit/s) and high speed (100kBit/s) operation.

All standard ANET auxiliary signals like 8 Discrete I/O’s, Trigger I/O, IRIG-B I/O as well as a general purpose USB2.0 port (to host USB devices) are available for the mixed protocol ANET version.
Software

The PBA.pro™ is the AIM core software platform for Avionics Test and Analysis application with AIM’s family of high performance avionics test and simulation interface modules plus a wide range of 3rd party hardware. PBA.pro™ is modular, scalable and customisable by the user to cover a wide range of applications in an extremely efficient manner.

The PBA.pro™ software runs on Windows and Linux platforms and integrates the essential features for today’s and tomorrow’s Avionics test, development, simulation, monitoring and analysis applications.

Various customisation capabilities via Scripts, user defined Panels and dedicated GUIs support the PBA.pro™ for use as a simple Databus Protocol Analyser up to System Test and Integration tool for handling multiple data buses via single software solution.

The PBA.pro Engine embedded in the AIM ANET Ethernet Modules outlines the flexible S/W concept of PBA.pro™ and integrates PBA.pro™ features at the interface device level.

Core functionality:
- Modular, scalable and integrated Software platform
- Support for Windows and Linux
- Fully automatable and customisable via Scripts, Remote Control and User Dialogs
- Manage single or multiple AIM Avionics Interfaces and 3rd Party Hardware resources within a single Framework
- Software Platform for:
  - Low and High Level Protocol/Network Analysers
  - Recording/Monitoring/Data Logging Systems
  - Special-To-Type Test Equipment (STTE)
  - Test Benches and Integration Rigs
  - ‘Hardware in the Loop’ Simulation Rigs
  - In-Service and Maintenance Toolsets
  - Flexible Licensing Options (Full, Light, Runtime)
  - PBA.pro Server/Client support for data distribution to multiple Workstations
  - PBA.pro Engine support embedded into AIM ANET interfaces
  - Complete Add-On Script Packages to support:
    - AS4111 and AS4112 Test Plans
    - EFAbus RT Production Test Plan
    - ARINC664P7 End System/Switch Compliance Tests
  - Useful PBA.pro Utility Scripts, Panels, etc. are available via AIM Download Area

PBA.pro™ – modular, scaleable and integrated approach for a broad range of avionics applications.
Data Loading Software

For Data Loading requirements AIM provides software solutions for ARINC615A (over Ethernet, AFDX®/ARINC664P7) as well as ARINC615-3/4 (over ARINC429) which work together with the corresponding AIM interface modules.

EasyLoad-615A
EasyLoad-615A is the DataLoader GUI application which performs 615A Data Loading operations via Standard Ethernet ports (NICs) as well as via AIM’s AFDX®/ARINC664P7 by supporting 615A Upload, Download, FIND, INFORMATION operations. A built-in MediaSet generation capability and remote control supports a seamless integration of the tool into the Data Loading work flow. The EasyLoad-615A Software Libraries support the integration of Data Loading capabilities into customer applications without using the GUI.

EasyLoad-429
EasyLoad-429 is the DataLoader GUI application which performs 615-3/4 Data Loading operations via AIM’s ARINC429 Interface modules supporting the different modes for data uploads and downloads. The EasyLoad-429 Software Libraries support the integration of Data Loading capabilities into customer applications without using the GUI. The EasyLoad-429 functionality is also available in PBA.pro, so that PBA.pro based ARINC429 Analysers and Systems can be enhanced with 615-3/4 Data Loading capability.

Training & Services

PBA.pro™ Training Courses
AIM offers a range of training courses for PBA.pro™ users at all levels. Our comprehensive training courses are conducted by expert trainers and can be adapted to individual needs and requirements. Furthermore, we offer special tool customisation and development services as an optional, costed item.

- Basic PBA.pro™ tool Introduction – 1 Day
- In depth PBA.pro™ workshop focussing on the customer’s specific interests – 2 Days
- PBA.pro™ Component Programming Workshop for writing your own PBA.pro add-on component – 2 Days

Services
- Databus Workshops
- Board programming
- Engineering Support
AIM’s systems group provides a wide range of customised solutions:
- Special-to Type Test Equipment (STTE)
- High Level Bus Analysers
- Data Acquisition Recording & Simulation Systems
- Aircraft Ground Equipment (AGE)
- MIL-STD-1760 Weapon Test Sets
- Fibre Optic MIL-STD-1553 Stub/ARINC429 Link Extension System (FOMIS/FOL)

PBA.pro™ is used as the baseline for all our customised system solutions in conjunction with AIM’s modules, 3rd party interfaces and Commercial Off The Shelf (COTS) equipment.

The flexibility and scalability of the PBA.pro™ concept with its components offers a set of comprehensive ‘Building Blocks’ for customised Systems.

Full documentation, design reviews, project management, installation, training, long term support contracts and the AIM expertise in customised Systems guarantee your success!
ADock

The ADock ANET Docking Station offers the capability to host up to 4 AIM ANET Ethernet based data bus interface modules in a single housing or rack. This allows a modular and compact implementation of Test Systems. Furthermore multiple ADocks can be clustered in a network.

The ADock hosts a single power supply unit for all 4 ANET slots and for the included Ethernet Switch and optional WLAN Router. Per default the ADock is AC powered. The ANETs can be individually powered via dedicated power switches to support a maximum of flexibility via the capability plug/unplug a single ANET without powering down the entire docking station or other ANETs mounted in the dock. AIM ANET devices are available for MIL-STD-1553, STANAG3910 and ARINC429.

For standalone use of dockable ANETs an adapter is available, offering connectors for Ethernet, USB an Auxiliary signals (IRIG-B, Discretes, Trigger I/O), equivalent to the standard ANETs.

Bus Extension Systems

With the Fibre Optic Extensions products, AIM covers a very special niche with solutions for the transparent extension of MIL-STD-1553 and ARINC429 Avionics Databases over fibre optical links.

Different solutions are offered for Monitoring and Simulation applications in laboratory environment and also in EMC chamber conditions, with hardened implementations of the extension components.
Cables & Accessories

AIM offers a variety of cables for use with our modules, databus analysers and systems.

For MIL-STD-1553 applications we offer an off the shelf range of Bus Couplers, Cables and Terminators and complete Bus Kits to meet all your MIL-STD-1553 test & development needs.

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The www.aim-online.com web site provides our customers with the very latest product information, technical support, databus tutorials and a rich & powerful download resource maximising the investment and use of AIM products.

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