

Press release

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Avionics Databus
Solutions

On track with Express for triple speed AFDX[®]/ARINC664P7 Test & Simulation

AIM has released the APE-FDX-2, AFDX[®]/ARINC664P7 PCI Express test and simulation interface module (PCIe 2.0 x1), being the first of the new third generation and successor to the formidable API-FDX-2 (PCI/PCI-X) module. With full software compatibility to its predecessor on both the API and PBA.pro layers, the new APE-FDX-2 comes with the latest AIM Common Core architecture, using the latest System-On-Chip (SOC) design including Dual Core Processor and programmable logic.

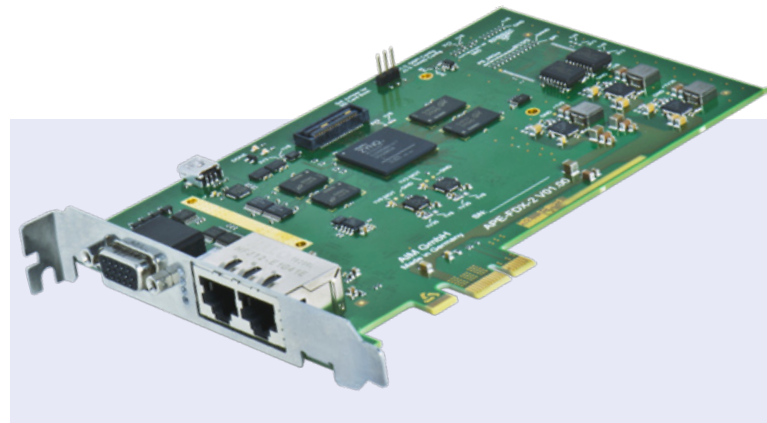
In addition to its predecessor's rich set of field proven test & simulation features, two additional features have been introduced. First, two triple speed Ethernet (10/100/1000Mbps) interface ports with standard RJ-45 copper front end connectors support single or redundant configured AFDX[®]/ARINC664P7 links. Second is a built-in Tapping function for inline traffic analysis. Support for IRIG-B synchronisation and generator capability, Trigger I/O and Discrete I/O's are included.

An onboard LINUX operating system is executed on one CPU of the dual core processor. The second core CPU implements the real time Bus Interface Unit communicating with a customised MAC Controller in the FPGA section.

Joachim Schuler, General Manager at AIM GmbH says:

"This new architecture offers a powerful and flexible platform for today's and future standard AFDX[®]/ARINC664P7 test and simulation tasks including support of the Boeing ARINC664P7 variant.

The use of Ethernet based communications is growing in all areas including Industrial Automation, Railway, Automotive and of



course Defence & Aerospace. With the XMC and PMC card variants of the APE-FDX-2 close to release, these new products are open to support further Ethernet based standards and positions AIM to maintain our market leadership".

The APE-FDX-2 includes the driver software bundled into the price, supporting Windows, Linux and LabVIEW VI/LabVIEW RT. The PBA.pro (Light or Full Version) Data Bus Test & Analysis Software is available as an option for Windows and Linux. Optional EasyLOAD-615A Dataloading Software for Windows can be used with the new APE-FDX-2 for loading AFDX[®]/ARINC664P7 target End Systems or Switches.

The AIM full service web site provides the latest product information, technical support, data bus tutorials and a rich and powerful download resource area maximizing the investment and use of AIM products.

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

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