

Press release

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Avionics Databus
Solutions

'What's the Protocol?'

AIM's Ethernet based interface family now includes a new member with Mixed Protocol support, combining MIL-STD-1553 and ARINC429 data bus test and simulation capabilities in 1 ANET device.



The new ANET-MxAy Mixed Protocol ANET has a maximum of 2 dual redundant MIL-STD-1553 streams and up to 12 ARINC429 channels. The MIL-STD-1553 section offers concurrent Bus Controller, Multiple RT Simulator (31) with a Mailbox and Chronological Monitor functions. All the ARINC429 channels are fully software programmable for Tx/Rx mode as well as Lo (12.5kBit/s) and Hi Speed (100kBit/s) operation.

Joachim Schuler, General Manager at AIM says 'We originally developed the mixed protocol ANET for a unique customer requirement, but due to its very generic nature and full flexibility, the mixed protocol ANET is suitable for all test, simulation and monitoring applications. Taking full advantage of the already introduced ANET hardware and software concept with flexible on board processing capabilities, e.g. the device can even be turned into a dedicated standalone autonomous data converter from ARINC429 to MIL-STD-1553 or vice versa, into a data logger and many other applications.'

Standard ANET features like IRIG-B I/O, Discrete I/O, Trigger I/O and a general purpose USB2.0 port for hosting USB devices are available for the mixed protocol ANET with the Ethernet Interface supporting 10/100/1000 Ethernet links. An on board buffered Realtime Clock (RTC) is also available per default.

The ANET-MxAy is offered with the standard AIM ANET housing as well as a 'rugged' housing variant.

Since the API interface of the mixed protocol ANET is compatible to the API of the individual MIL-STD-1553 and ARINC429 ANET interfaces as well as to the other AIM supported form factors, a very efficient migration path exists for the customer's application software. The common and powerful ANET features such as the on board Python scripting, customer written C Applications and optional PBA.pro Engine (for execution in the box) are also available via the embedded LINUX based application support processor.

The PBA.pro Test & Analysis Software for Windows and Linux supports the mixed protocol ANET using the standard resource components for MIL-STD-1553 and ARINC429. Other optional and powerful PBA.pro features like the Database Manager (for payload decoding) and the Test and Script Manager (for automation) are also on offer, as well as the PBA.pro ARINC615-3 Data Loader extension PBA.pro-ARINC429-LDR. The AIM EasyLoad-429 standalone Data Loader Application also supports the mixed protocol ANET for 615-3 Data Loading via ARINC429.

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

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