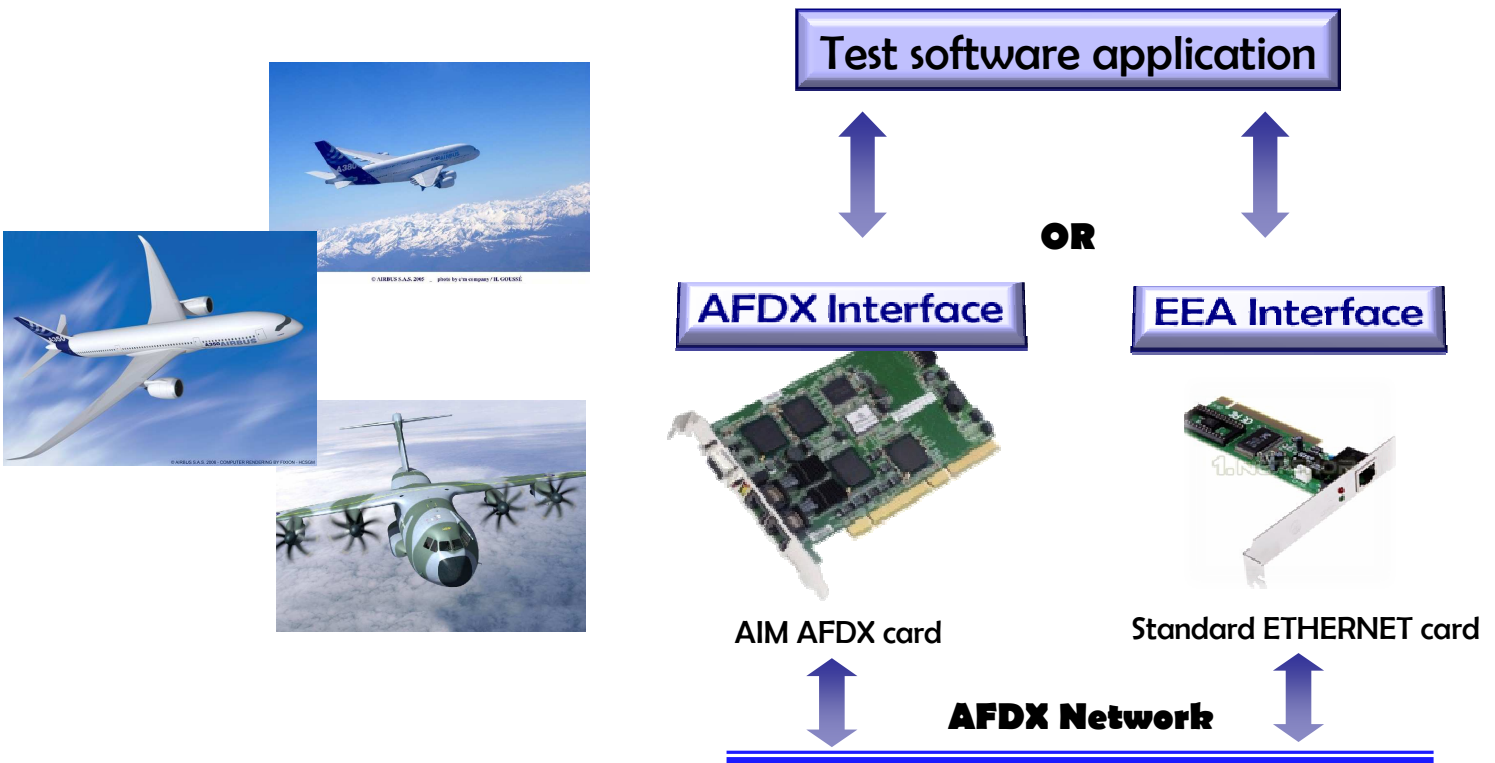


EEA

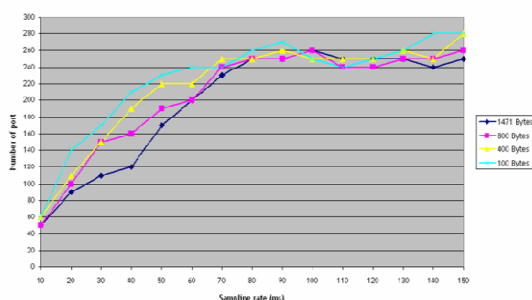
E3i Ethernet AFDX

This product simulates the use of an AFDX card by software, using a standard PC Ethernet card.

- ✓ Compliant with **AFDX** AIM libraries
- ✓ Up to 4 AFDX ports available
- ✓ Simulation of AFDX features: transmission, reception, sampling and queuing
- ✓ Traffic shaping (BAG)
- ✓ Controls on AFDX parameters
- ✓ Platform support: Windows and Linux



Global EEA Performance with CPU use under 50%





EEA

E3i Ethernet AFDX

✓ Features

- ✓ 100% compatible with the functions exported by AFDX AIM library V12.0x Rev. A, November 2004. Functions implemented or supported.
- ✓ Individual mode available for simulation of AFDX features : Input and Output, Sampling and Queuing
- ✓ Controls available on AFDX parameters: sequence number, VL frame length, IP checksum, MAC address format, ...
- ✓ Ethernet cards selection (up to four ports).
- ✓ Priority management : global and RX/TX.
- ✓ Log file including AFDX errors reporting
- ✓ AFDX messages recording

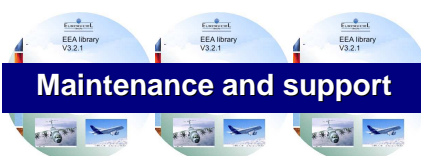
✓ Limitations

- ✓ No RMA redundancy mechanism for the second AFDX bus (port B),
- ✓ No recording capacity or AFDX traffic monitoring available (Chronological mode),
- ✓ No generic or replay modes (no continuous transmission or AFDX traffic replay),
- ✓ No remote ANS server access (AIM Network Server),
- ✓ No external synchronization through external trigger,
- ✓ Great performances for simulation

✓ Options and services available

- ✓ SAP functions (Rx and Tx)
- ✓ High level interfaces with applications (java applications, ...)
- ✓ Support and maintenance contracts
- ✓ Technical assistance

Some of our references for EBTF tool:
Airbus, Thales Avionics, Sagem DS,
EADS Test & Services...



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E3i Ethernet AFDX

SUPPORTED FUNCTIONS

✓ Admin Functions

- ✓ FdxInit
- ✓ FdxQueryServerConfig
- ✓ FdxQueryResource
- ✓ FdxLogin
- ✓ FdxLogout

✓ Transmitter functions

- ✓ FdxCmdTxPortInit
- ✓ FdxCmdTxModeControl
- ✓ FdxCmdTxControl
- ✓ FdxCmdTxStatus
- ✓ FdxCmdTxVLControl
- ✓ FdxCmdTxCreateVL
- ✓ FdxCmdTxUDPCreatePort
- ✓ FdxCmdTxUDPDestroyPort
- ✓ FdxCmdTxUDPWrite
- ✓ FdxCmdTxUDPGetStatus
- ✓ FdxCmdTxUDPControl
- ✓ FdxCmdTxVLWrite
- ✓ FdxCmdTxSAPBlockWrite *
- ✓ FdxCmdTxSAPCreatePort *
- ✓ FdxCmdTxSAPWrite *

✓ Receiver functions

- ✓ FdxCmdRxPortInit
- ✓ FdxCmdRxModeControl
- ✓ FdxCmdRxControl
- ✓ FdxCmdRxStatus
- ✓ FdxCmdRxGlobalStatistics
- ✓ FdxCmdRxVLControl
- ✓ FdxCmdRxUDPCreatePort
- ✓ FdxCmdRxUDPDestroyPort
- ✓ FdxCmdRxUDPRead
- ✓ FdxCmdRxUDPGetStatus
- ✓ FdxCmdRxSAPBlockRead *
- ✓ FdxCmdRxSAPCreatePort *
- ✓ FdxCmdRxSAPRead *

✓ System functions

- ✓ FdxCmdIrigTimeControl
- ✓ FdxCmdBoardControl

✓ Target independent administration functions

- ✓ FdxCmdFreeMemory
- ✓ FdxFwIrig2StructIrig
- ✓ FdxStructIrig2fwIrig
- ✓ FdxAddIrigStructIrig
- ✓ FdxSubIrigStructIrig





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E3i Ethernet AFDX

NOT SUPPORTED FUNCTIONS

Prototype of non supported functions are available as exported calls for AFDX AIM compatibilities purpose

✓ Admin functions

- ✓ FdxDelIntHandler
- ✓ FdxInstIntHandler

✓ VME Initialisation functions

- ✓ AviFdxVMEBoardIni
- ✓ AiFdxModuleCheck
- ✓ AiFdxAviDelVmeInt
- ✓ AiFdxAviInitVmeInt

✓ Transmitter functions

- ✓ FdxCmdTxUDPBlockWrite
- ✓ FdxCmdTxUDPChgSrcPort
- ✓ FdxCmdTxVLWriteEx
- ✓ FdxCmdTxTrgLineCtrl
- ✓ FdxCmdTxStaticRegsCtrl
- ✓ FdxCmdTxQueueCreate
- ✓ FdxCmdTxQueueStatus
- ✓ FdxCmdTxQueueWrite
- ✓ FdxCmdTxQueueUpdate
- ✓ FdxCmdTxCreateHiResVL

✓ System functions

- ✓ FdxReadBSPVersion
- ✓ FdxCmdBITETransfer

✓ Receiver functions

- ✓ FdxCmdRxVLControlEx
- ✓ FdxCmdRxVLGetActivity
- ✓ FdxCmdRxTrgLineControl
- ✓ FdxCmdMonCaptureControl
- ✓ FdxCmdMonTCBSetup
- ✓ FdxCmdMonTrgWordIni
- ✓ FdxCmdMonTrgIndexWordIni
- ✓ FdxCmdMonTrgIndexWordIniVL
- ✓ FdxCmdMonGetStatus
- ✓ FdxCmdMonQueueControl
- ✓ FdxCmdMonQueueRead
- ✓ FdxCmdMonQueueSeek
- ✓ FdxCmdMonQueueTell
- ✓ FdxCmdRxUDPBlockRead
- ✓ FdxCmdRxUDPChgDestPort

✓ Target independent administration functions

- ✓ FdxTranslateErrorWord
- ✓ FdxInitTxFrameHeader

