AIM
RIGHT ON TARGET

Avionics Databus Solutions

Rugged ANET

- MIL-STD-1553
- ARINC429
- Mixed Protocol (MIL-STD-1553 & ARINC429)

Test & Simulation Module for Standard Ethernet (rugged variant)

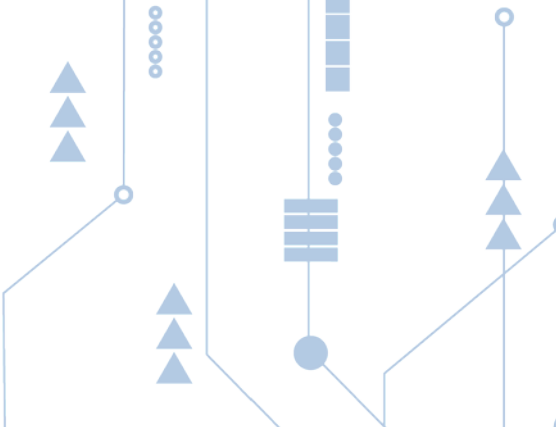
Data Sheet

www.aim-online.com

General Features

The AIM Standard ANET device ANET-MxAy (1553/429 mixed protocol) for Standard Ethernet can be offered in a ►**rugged housing**.
MIL-STD-1553 and ARINC429 only configurations available.

All detailed functional features of the above listed Standard ANET models are found in their corresponding data sheets.
The housing is a metal aluminum case with mounting holes, having all I/O and power connectors on one side of the housing.



Technical Data

Connectors

The rugged housing ANET uses standard connectors for all I/O and power connections.
Standard Ethernet: RJ-45
USB 2.0: Type-A
AUX(Trig/IRIG/GPIO): D-Sub15 HD
These connectors are used as per the Standard ANET devices.

Databus I/O is implemented as follows:
MIL-STD-1553: D-Sub9 (max. 2 streams)
ARINC429: D-Sub26 HD (max. 12 channels)

The power connection is done via 5-pin LEMO push-pull connector type. Additional pins allow control of the power (ON/OFF) as well as activating the ANET Emergency Reset mode (e.g. for S/W updates). Per default, the rugged ANET powers up after applying DC power (details see Power Supply section below).

For versions with customized connector panel, please contact factory.

Power Supply

The default power input capability of all rugged ANET versions is a wide range input from 9 to 36VDC. Per default the ANET will start-up with the application of the DC power to support external power up control. The power connector offers additional pins to add a local power ON/OFF button.

Dimensions

220mm x 140mm x 60mm (LxWxH)
appr. 1.8kg

Environmental Specifications

Shock, vibration, humidity, altitude:
MIL-STD-810G

EMC:
EN 55022: 2011-12,
EN 55024: 2011-09
(further qualifications available on request)

Temperatures

-25°C to +70°C operational
-40°C to +85°C storage

Software Support

Application Programming Interface (API) available for use from Windows and LINUX host applications.

Compatible to AIM PBA.pro Application Software for Test and Analysis and AIM EasyLoad 615-3 and 615A DataLoader Software.

ASP (Application Support Processor) Onboard Software Development Kit (ADK) for development of onboard software applications (under embedded LINUX OS).

Onboard Python scripting support.

Applications

- Remote Test and Simulation Interface
- Protocol Conversion
- DataLoader Interface
- Standalone Device (Data Logging, etc.)

Ordering Information

ANET-MxAy-R

Mx: MIL-STD-1553 Stream Option
M0 = 0 Stream
M1 = 1 Stream
M2 = 2 Streams
Ay: ARINC429 Channel Options
A4 = 4 Channels
A12 = 12 Channels

ANET-USB-WIFI

USB-WiFi Dongle, compatible to ANET Devices

ANET-ADK

ANET onboard Software Development Kit including documentation, samples and tool chain; requires LINUX based development platform

Single Function

(MIL-STD-1553 Section only) versions available
Chronological & Mailbox Monitor OR
BC and Chronological & Mailbox Monitor OR Multi-RT and Chronological & Mailbox Monitor

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