

Rugged ANET

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

Test & Simulation Module
for Standard Ethernet (rugged variant)



Data
Sheet

Rugged ANET

General Features

The AIM Standard ANET Device ANET-MxAy (1553/429 mixed protocol) for Standard Ethernet can be offered in a rugged housing. MIL-STD1553 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.

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.

Data Bus I/O is implemented as follows:

MIL-STD-1553: D-Sub9
(max. two 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 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...36 VDC.

As an option, the rugged ANET can be offered with a MIL-STD-704 compliant power input capability (18...50 VDC).

Per default The ANET will start-up with the application of the DC power to support "external" power up control. Additionally, the power connector offers additional pins to add a "local" Power ON/OFF button.

Dimensions

Length x Width x Height (in mm):
220 x 140 x 60

Weight (in kg):
appr. 1,8kg

Environmental Specs:

Shock, Vibration, Humidity, Altitude:
MIL-STD-810G

EMC:
EN 55022: 2011-12, EN 55024 2011-09

(further qualifications available on request)

Temperature:
-40°C...+70°C operational
-40...+85°C storage

Software Support

Application Programming Interface (API) available for use from host 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,...)

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