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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**


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# 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


►**AIM Office Contacts:**

AIM GmbH
Sasbacher Str. 2
D-79111 Freiburg / Germany
Phone +49 (0)761 4 52 29-0
Fax +49 (0)761 4 52 29-33
sales@aim-online.com

AIM GmbH – Munich Sales Office
Terofalstr. 23a
D-80689 München / Germany
Phone +49 (0)89 70 92 92-92
Fax +49 (0)89 70 92 92-94
salesgermany@aim-online.com

AIM UK Office
Cressex Enterprise Centre, Lincoln Rd.
High Wycombe, Bucks. HP12 3RB / UK
Phone +44 (0)1494-446844
Fax +44 (0)1494-449324
salesuk@aim-online.com

AIM USA LLC
Seven Neshaminy Interplex
Suite 211 Trevose, PA 19053
Phone 267-982-2600
Fax 215-645-1580
salesusa@aim-online.us