

AerIDM-A

Rugged Avionics Improved Data Modem VMF/MIL-STD-188-220 B/C/D CN 1, AFAPD, TACFIRE, MTS

AerIDM-A Summary

The AerIDM-A is a rugged, small, lightweight, power-efficient Improved Data Modem. Aeronix developed the AerIDM-A variant to its AerIDM to provide customers the most flexible Ethernet-based host Aeronix modem, as it supports both digital synchronous and analog radio interfaces.

The AerIDM-A supports two fully-independent radio channels, so only one modem is required to provide multiple data link solutions.

The AerIDM-A core executes Aeronix' WinIDM dual-channel software modem for its VMF/AFAPD/TACFIRE/MTS waveform solutions. For VMF networks, WinIDM also implements XNPv2 and MIL-STD-2045-47001 Segmentation/Reassembly.

The AerIDM-A is designed to meet stringent EMI performance for both fixed-wing and rotary-wing platforms.

AerIDM-A Technical Notes

Features

- ◆ Ruggedized design for ground/airborne vehicular installations
- ◆ Attractive SWaP
2.5"H x 9.3"W x 7.1"D
3.7 lbs
3W typical (4.0W max) operational
- ◆ 28VDC Input
- ◆ Full "WinIDM" solution with identical socket-based API
- ◆ Qualification Standards: 704A, 810G, 461F

Modular Host/Radio Connectors:

- ◆ Each channel of the AerIDM-A features a ruggedized, modular 38999 connector to provide the flexibility needed to allow a single modem to interface to a wide variety of radios and crypto devices
- ◆ Flexible Data Interface includes digital sync/serial, narrow-band audio FSK, wideband ASK
- ◆ 1 Ethernet Port, 1 Power Port, and 2 Radio Ports

Protocol Analyzer Compatible: The AerIDM-A can be networked to a laptop operating the Aeronix Protocol Analyzer to test your MIL-STD-188-220 interoperability.



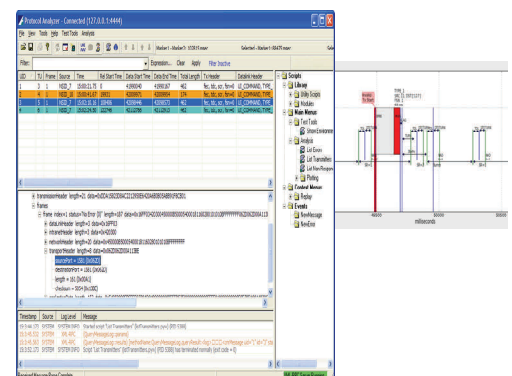
Aeronix Overview

Aeronix has been involved in the IDM tactical data link business area since 2001. Aeronix is a multi-faceted contributor to the international Digitally-Aided Close Air Support (DaCAS) and Fire Support (DaFS) communities. Aeronix modem technology is deployed on multiple airframes, including the F-35, A-10, B-52, and U.S. / international F-16. Aeronix ground solutions, based on industry-leading WinIDM and mobileIDM software modems, are deployed in the U.S. and fifteen partner nations. Aeronix' WinIDM and Protocol Analyzer are core components of the DVMT DACAS test tool used at Boldquest and DaCAS/DaFS test labs. All Aeronix modems utilize a common core API that protects tactical application development investment.



Related Technologies: Protocol Analyzer

The Aeronix Protocol Analyzer provides the capability to fully decode any captured VMF TDL message traffic. The decoded data displays a summary of every over-the-air transmission, as well as a detailed decoding of the received data, down to the bit-level. All transmissions are logged with a timestamp that records the transmission time with millisecond accuracy. Annotations can be made to the recorded data to comment on the message traffic. Recorded data, with the comments, is exportable to both XML and HTML formats.



AerIDM-A Key Features

- Ethernet Host Interface
- Full Linux OS
- Dual, Independent Radio Interface Channels
- 38999 Connectors
- CESMO-Compatible
- DACAS Block 1 Compatible
- XNPv2
- Segmentation/Reassembly
- DVMT Compatible
- Field Reprogrammable
- KY-100 / KY-58 interface Compatible



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