



IDM Workbench™ Technical Summary

IDM Workbench™ provides complete host emulation for operating any of the Symetrics IDM products, including WinIDM™, Mini IDM™, WDL IDM™, and the IDM 501™. With IDM Workbench™, users are able to perform early integration efforts, as well as exercise IDM products in a lab environment without relying on fully-developed host / OFP software.

IDM Workbench™ includes a powerful scripting language for automating interactions with the IDM, providing the ability to easily drive simulation, perform integration stress testing, or perform regression testing. Scripts are written in a C-style language and can perform configuration, send, receive, and respond to messages, and interrogate and modify data in messages. Scripts can be organized into Suites for compliance testing or demonstrations.

IDM Overview

In 2001, Aeronix partnered with Symetrics Industries to develop the Improved Data Modem (IDM) 501/IDM Junior™, VPIDM, and Mini IDM suite of Tactical Data Link (TDL) products. This IDM family has grown to include the Weapons Data Link IDM (WDL IDM), and now, the U-ROC and WinIDM, providing a USB and Software solution to the TDL community.

Our IDMs are integrated and deployed in a variety of military platforms worldwide. Through this partnership, Aeronix has taken an active leadership role in the Combat Net Radio Working Group (CNRWG) to ensure interoperability of your MIL-STD-188-220/MIL-STD-2045-47001-based Tactical Data Link (TDL).



Related Technologies

Mini IDM™

The Mini IDM is designed as a “low-cost” data link for air-launched munitions and for UAV applications where a lightweight, low-power, extremely small LRV can be integrated. The modem electronics are designed to PC/104 mechanical form factor for rapid integration into existing customer PC/104-based LRUs.

WinIDM™

WinIDM™ provides customers with a software-only implementation of the VMF TDL, featuring the F-35 Joint Strike Fighter (JSF) MIL-STD-188-220 D Change Notice 1 Protocol Stack, as well as legacy support for MIL-STD-188-220 B/C, AFAPD, and TACFIRE tactical data links. WinIDM™ can be combined with the U-ROC™ to provide a complete TDL solution or paired with NetSim™ for simulation and testing.

IDM Workbench Key Features

- Complete Host Emulation
- VMF Message Graphical Display
- VMF Message Parsing
- Scripting Language
- Test and Demonstration Suites
- Automated Regression Testing

