

IDM Workbench™ Technical Summary

IDM Workbench™ is a turnkey host controller of Aeronix-designed IDM products including WinIDM™, Soldier IDM™, AerIDM™, and legacy IDM products—Mini IDM and the IDM 501. IDM Workbench™ is used world-wide by our IDM customers in their integration and test environments..

IDM Workbench™ includes a powerful scripting language for automating interactions with the IDM, providing the ability to easily drive simulation, perform integration stress testing, and 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.

Aeronix Overview

Aeronix has been involved in the IDM data link technology since 2001. Aeronix is a multi-faceted contributor to the U.S. Digitally-Aided Close Air Support (DACAS) community. Aeronix modem technology is deployed on multiple airframes, including the F-35, A-10, B-52, F-16, and multiple ground platforms, including BAO-Kit, FAC-Utility, and FACNAV (Norwegian BMS). Aeronix actively serves on the Combat Net Radio Working Group and leads/participates on multiple ECPs of the DACAS Coordinated Implementation movement. Aeronix developed the XNPv2 C++ Common Software Module available through the U.S. government. Aeronix WinIDM and Protocol Analyzer are core components of the DVMT DACAS test tool used at Boldquest and DACAS test labs.

Related Technologies

Soldier IDM™

Soldier IDM is an Aeronix standalone dual-channel modem designed to support both PC and Android devices. Lightweight (5 oz.), low power (typical 0.5W) and a USB 2.0 On-The-Go port, it can operate as a USB host or device. As a host, it can provide full WinIDM functionality while routing power to charge your Android device.

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, TACFIRE, and MTS tactical data links. WinIDM™ can be combined with your tactical application and a wide variety of commercially-available physical cabling solutions 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

