The worldwide leader of Link 16 solutions for air, ground, and maritime applications

Link 16
Terminal Exerciser

Monitor, control, and troubleshoot all variants of Link 16 terminals on a PC

The Terminal Exerciser consists of a set of Windows-based programs that are the backbone of Link 16 terminal maintenance. The Terminal Exerciser includes a ruggedized, portable computer and host data bus cable. It is also installed on a standard laptop or desktop PC. For a full turnkey system, we recommend using the Terminal Exerciser software with the MIDS LVT/JTRS Mini Rack, which becomes a low-cost, fully-integrated MIDS LVT/JTRS terminal test set and allows for operation with just wall power. With multiple variants of the Terminal Exerciser available, we will provide a solution tailored to customer needs.

Terminal operation

The Terminal Exerciser allows a user to initialize, monitor, control, and record data from a Link 16 terminal. It provides a graphical user interface, allowing the operator to select the data bus type (1553/Ethernet), platform (A, B, D, I, J, M, V, and W), and Ethernet support port. The Terminal Exerciser enables creation and storage of initialization files, management of the stored set capability, and monitoring of status with a user-friendly interface. This is the same tool that is used by DLS field service engineers and technicians to troubleshoot problems in depots around the world and in the factory.

The Terminal Exerciser has the capability to retrieve the MIDS built-in test capture files for additional maintenance capability. Terminals will store test results from initiated, operational, and start-up faults as files in memory. It has a graphical user interface that allows the user to retrieve and clear these files with the click of the mouse. This capability allows the maintainer to identify built-in test faults that occurred during flight at the depot. For any indication of failure, a click of the button on the screen will display the fault data in human-readable format.

Tactical Air Navigation (TACAN) is the second function that the MIDS LVT Terminal provides in addition to Link 16. The MIDS Terminal offers four functional output messages to the host containing TACAN data, each a subset of the information provided by the TACAN internally. In addition to the host data bus functional output messages, TACAN data and status words are available. The Terminal Exerciser has a screen that processes the TACAN status words and provides a graphical user interface of all the TACAN status on a single screen, including built-in test, identification, and the automatic gain control setting.

Link 16 Terminal Exerciser

System characteristics

Part number	M092A148
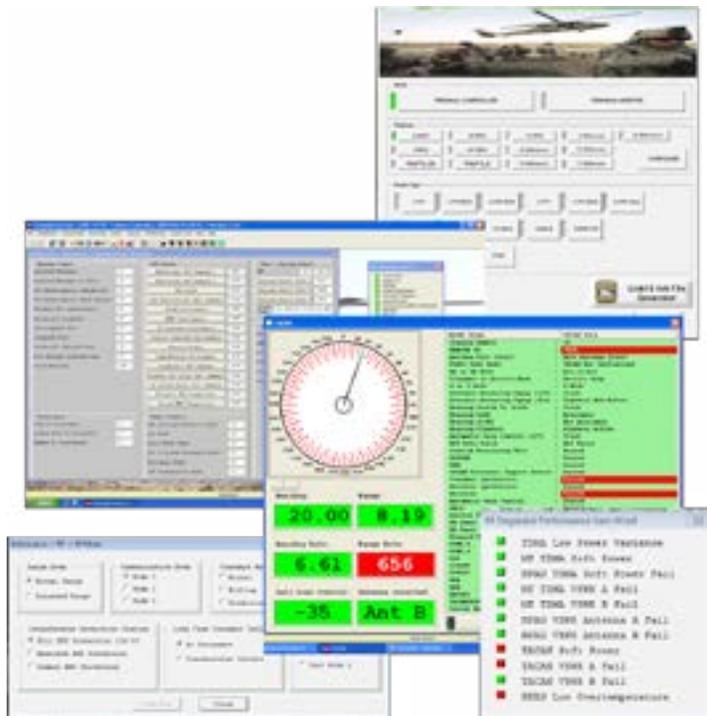
Functional capabilities

- Portable capability enables the testing, troubleshooting, and reprograming of both MIDS LVT and MIDS JTRS terminals

- Human-readable formats for initialization and control data reduces the time required to assess and control a terminal

- Cables and host data bus adapters meet a wide variety of user's specific needs- please contact DLS for details about your specific application

- Utilizes Windows 7-based operating systems for simple integration

- Support of a variety of platform data bus types (MIL-STD-1553/Ethernet); platform (A, B, D, I, J, M, V, and W) enables utilization on a variety of platforms

- Stored recording data from the terminal over the host or support port allows for in-depth analysis

- Flexible training courses suit customer needs and prepare for independent use

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