

LINK MONITOR SYSTEM

MX-512L



IMPROVING ALLIED INTEROPERABILITY

TADIL-A/Link 11 has become an indispensable system in Joint Tactical operations. Link 11 is used for the exchange of tactical command and control data among ship, shore and air platforms, in which the speed and accuracy with which these data are exchanged affect the performance of weapon systems. The MX-512L is a useful tool for the monitoring of system performance and fault isolation of a TADILA/Link 11 system. The MX-512L may be used in operating platforms for systems monitoring and in laboratories for system test and development.

The MX-512L Link Monitor is inserted between the LINK 11 Data Terminal Set (DTS) and the radio system with which it is operating. The MX-512L is independent of the model of DTS used in the system. The MX-512L analyzes the Link 11 signals and extracts from the network data which allow the operator to understand, in depth how the total data link system is operating. Link performance data are displayed, in real time, in tabular and graphic forms on a full color PC, using Windows® as a host environment. All of the flexibility and control features of Windows are available to the operator. The PC is used for both control of the MX-512L and to display data.

The interface between the PC and the MX-512L is RS-232C using a COMM port of the PC at a rate of 19.2 kbps. The MX-512L

may be controlled over any available communications channel, and the MX-512L may be installed at remote, unattended radio sites. The MX-512L operates on both the Conventional Link 11 Waveform (CLEW) and the Single tone Link 11 Waveform (SLEW).

The MX-512L displays data, such as Net Cycle Time, concerning operation of the entire network, as well as specific parameters such as power and the spectrum of every Participating Unit (PU) in the net. Colors are selectable to highlight specific occurrences in the net, which should be noted by the operator. There are nine screen (Windows) displays on the PC. Multiple screens are available to the user, who is able to toggle between screens and select screen arrangements using standard Windows® capabilities.

Leonardo DRS can supply the complete package, including the PC, or only the MX-512L unit with software that runs under Windows®.



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HIGHLIGHTS

- Displays performance of each participating unit in the Link 11 network
- Enables operator to manage and maintain the Link 11 network
- Works with any DTS to provide real-time net performance
- Deployable in remote unattended installations
- Can be used in split-site Link 11 configurations

SPECIFICATIONS

PHYSICAL FEATURES

Dimensions (H x W x D) 5.25 x 19 x 12 inches
13.33 x 48.26 x 30.48 cm

Weight 20 lbs. (9.07 kg.)

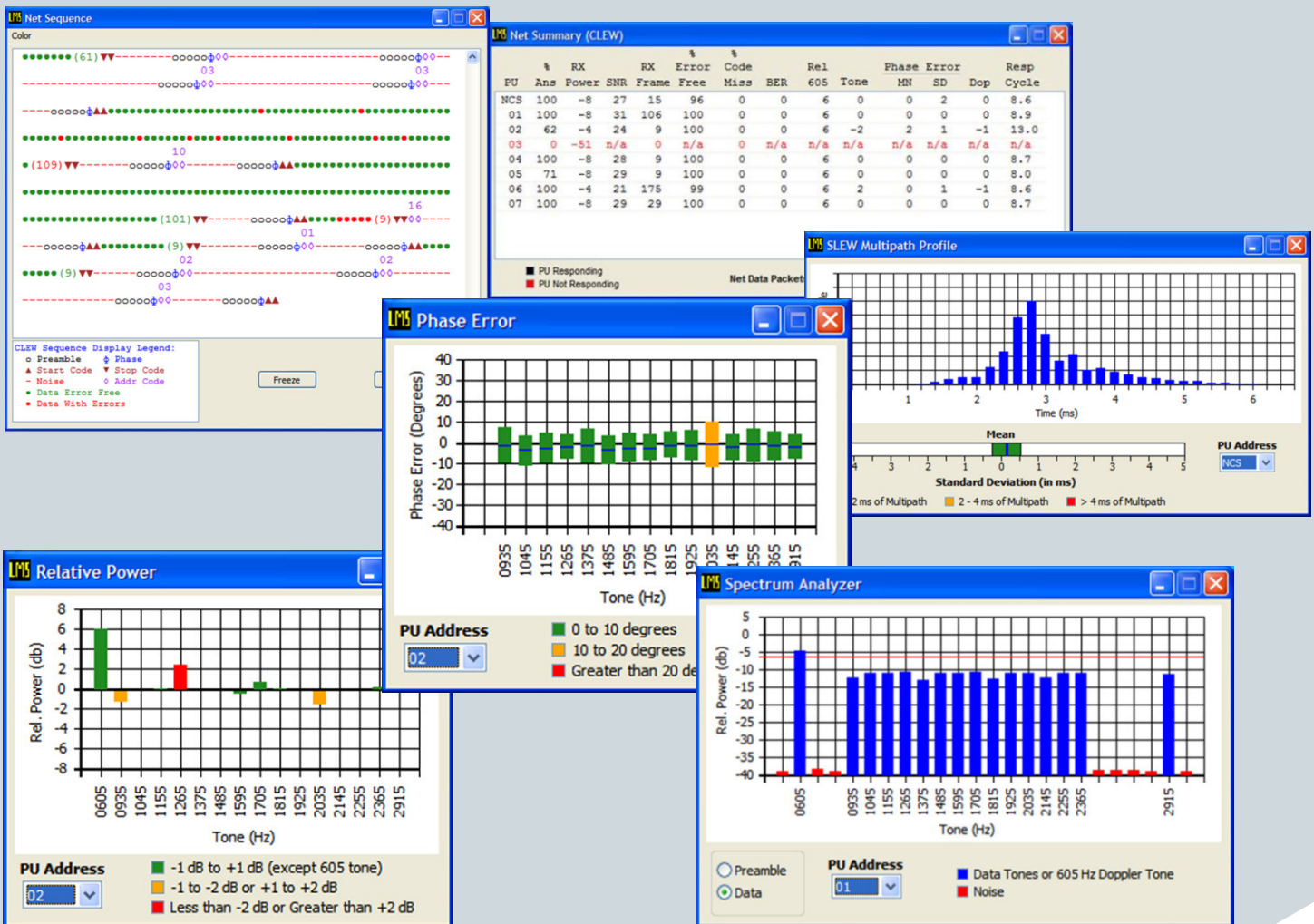
ELECTRICAL FEATURES

Power 25 Watts
115 V, 47 to 440 Hz, single phase

Interface to radio system 600 Ohms balanced
0 db +/- 3 db, 2 sidebands plus key line in accordance with MIL-STD-188-203-1A

Interface to DTS Same as interface to radio system

Interface to PC RS-232C compatible
Asynchronous at 19.2 kbps



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