# MX-512PV-C LINK-11/TADIL-A

## MX-512PV-C LINK-11/TADIL-A DATA TERMINAL SET/LINK-22 SPC

The DRS MX-512PV-C Link-11/TADIL-A Data Terminal Set/Link-22 SPC is the compact shipboard member of the DRS Data Terminal Set (DTS) product family. To date, DRS has delivered upwards of 2,000 systems in more than 20 countries deployed into all major surface and sub-surface Naval platforms.

Utilizing the same technology as used in the U.S. Navy's Common Shipboard Data Terminal Set (CSDTS), the MX-512PV-C Link-11/TADIL-A DTS provides all required modem and network functions in a Link-11/TADIL-A system using High Frequency (HF), Ultra High Frequency (UHF) or SATLINK radio communications. As an option, the terminal can also be utilized as the Signal Processor Controller (SPC) in a Link-22 tactical data link or multi-link Link-11/22 configuration.

The MX-512PV-C meets the requirements of the NATO Improved Link-11 (NILE) SPC system segment specifications for HF and UHF fixed frequency SPC operation. DRS was the first SPC supplier, and continues to be a lead participant in NILE development activities.

Optional configurations are as follows:
Single-channel options:
- Switchable Link-11 DTS and HF Link-22 SPC
- Switchable Link-11 DTS and HF or UHF Link-22 SPC

Dual(multi)-channel options:
- Simultaneous Link-11 DTS and HF Link-22 SPC
- Simultaneous Link-11 DTS and HF or UHF Link-22


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## HIGHLIGHTS

Link-11

- Meets MIL-STD-188-203-1A
- Conventional Link-11
- Waveform (CLEW)
- Single-Tone Link-11
- Waveform (SLEW) per SPAWAR-S-850 Link-22
- Meets NILE HF SPC and UHF system segment specifications

## ACCESSORIES/TEST TOOLS

MX-512S Tactical Data Simulation System (TDSS) simulates Tactical Data System Host including single and multi-station Performance Operational Functional Analysis (POFA).

## MECHANICAL/POWER SPECIFICATIONS

| | |
|---|---|
| Height | 5.25 inches (13.3 cm) |
| Width | 19 inches (48 cm) |
| Depth | 16 inches (40.6 cm) |
| Power | 25 watts (single-channel) or 33 watts (multi-channel) |

## RELIABILITY/MAINTAINABILITY SPECIFICATIONS

| | |
|---|---|
| Mean Time Between Failure (MTBF) | Over 11,600 hrs per MIL-HDBK-217 F at +77°F (+25°C) NAVAL sheltered (single channel) |
| Mean Time To Repair (MTTR) (ORG level) | 5 min |
| Mean Time To Repair (MTTR) (Depot level) | 40 min |

## ENVIRONMENTAL SPECIFICATIONS

| | |
|---|---|
| Temperature | |
| Operating | +32°F to +122°F (0°C to +50°C) |
| Non-operating | -58°F to +185°F (-50°C to +85°C) |
| Vibration | MIL-STD-167-1 Type 1 |
| Humidity | MIL-STD-810F Method 507.4 |
| Shock | MIL-S-901, Grade A, Class 1, Type A |

## CONTROL INTERFACE

| | |
|---|---|
| Standard for single-channel | RS-423/232: 9.6 kbps |
| Standard for multi-channel | Ethernet 10baseT |

## OPTIONAL FEATURES FOR SINGLE-CHANNEL

| | |
|---|---|
| Control interface Ethernet | Ethernet 10baseT |
| Control software | Hosted on Windows® XP and Windows® 7 |
| Digital serial interface for Wireline and SATCOM | RS-423/232 |
| Gateway | HF/UHF to SATCOM/Wireline |
| Link-22 SPC | HF/UHF |
| Link Monitor System | Link-11 |
| Operation | split and split-split site |

## OPTIONAL FEATURES FOR MULTI-CHANNEL (IN ADDITION TO SINGLE-CHANNEL OPTIONS)

| | |
|---|---|
| Gateway | CLEW to SLEW simultaneous Link-22 DTS and Link-22 operation |

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