

PLT - Pre Loading Tester

- Squibs simulation
- Multiply Pulse Width and height measurements
- 3 full-duplex Serial communication channels.
- Windows based Software.
- Fully Rugged
- Optional 1553



Main Features

- Intel Pentium-M 1.4GHz
- 1G SDDR Memory
- 16GB Non-volatile flash storage
- Windows XP.
- LCD 5.7" VGA Display
- Push Buttons operation
- 28V operation
- Rechargeable Li-ion Battery
- Fully rugged design
- Extended temperature
- Optional 1553
- More ports and capabilities upon request.

Application

- Full launch sequence emulation and testing.
- Stray-Voltage test
- 7 Squib simulation and measurements channels in parallel
- 7 A/D 12bit input channels
- 3 D/A 12bit Output channels.
- 15 Discrete output lines, 0-28V.
- 4 Discrete input lines, 0-28V.
- 3 low-power battery simulation, up to 42V .
- 3 RS-422 communication channels.

Overview

The Pre Loading Tester (PLT) is a PC-104+ base rugged computerized module serves for fast testing of the Fire Management System.

The PLT emulates Wide variety of Missiles for different platforms.

Ability to communicate with the Unit Under Test (UUT) and retrieve BIT results upon request.

Functionality and performance to follow Rafael's existing Pre-flight tester.

Optional capabilities of 1553 communication test.

The LPFT emulates missile firing. The LPFT checks the ignition lines and commands. It emulates all the necessary outputs required for missile launch

The PLT conducts Stray-Voltage test (SV-test) \ short-circuit test when UUT power is off in order to find incidental voltage or short on safety lines.

The PLT conducts End to end Self Test, including test harness.

Stray-Voltage test-

The PLT receives 28V from the UUT in addition to the supply from its own batteries.

Expansion

Customized up on Request:

- Up to 32 Single ended or 16 differential A/D inputs
- Up to 4 D/A , 12bit outputs
- Up to 16 I/O ports
- Up to 32 Opto-Isolated digital inputs
- Up to 32 power relays outputs
- Up to 7 RS485 channels
- Up to 4 Ethernet
- Possible 1553 communication

Development Tools

USB and Ethernet data cable enables mouse\keyboard\CD\ any other USB-device connection to tester.

We will be happy to assist with any query or request, **The Chaban Group.**

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PLT - Pre Loading Tester



Computing

- Intel Pentium-M 1.4GHz
- 1G SDDR Memory
- 16GB Non-volatile flash storage
- Windows XP.

Standard Accessories

- Rechargeable Li-ion Battery
- AC charger
- USB & ETHERNET data cable
- Carry case
- Self-test cable

Optional Accessories

- UUT cables
- Spare Battery
- Outer Battery charger

Connectors

D38999 connectors

Maintenance and Calibration

No calibration is needed.
Batteries should be charged every 3 month

Physical Dimensions

- Size 225mmX270mmX264mm (WxDxH)
- Weight 12Kg
- Housing Aluminum
- Color Dark-Green

Environmental Conditions

- Operating Temperature -30°C to 55°C
- Storage Temperature -40°C to 70°C
- Pelican Shock & Vibration carry case design.
- EMI/RFI shield Design
- Designed for Explosive environment
- Rain and Blowing rain design (tested according to MIL STD 810F Method 506.4 Procedure)

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