Embedded Solutions

Custom Systems

MIL-STD 810 ADLRHD-1650 Removable Hard Drive Assembly

Features

- Designed for MIL-STD 810 Operation
- Durable Milled Aluminum Construction
- Durable Hyperboloid SATA Connector
  - Rated for 100,000 SSD Insertions
  - Rugged Mounted for MIL-STD 810 Shock and Vibration
  - Positive Mating Action
  - Ultra-Low Electrical Resistance
- 32GB to 640GB 2.5" SATA With Milled Aluminum Casing, SLC/MLC
- Support for Military-Erase Protocols
  - DOD NISPOM 5220.22-M
  - NSA/CSS 9-12
  - NSA/CSS 130-2
  - ARMY AR 390-19
- -40C to +85C Extended Temp. Rated
- Hard Drive Assembly Dimensions - HWD = .85" x 3.8" x 5.0"

ADLRHD-1650 Shown. Chassis and Door Not Included.

Ordering Information

Item Code	Part #	Description
ADLRHD-1650		Base RHD Assembly: Milled Mechanism, Interface PCB, Cabling
Storage Options		
Call for Pricing		32GB to 640GB 2.5" SATA , MIL Secure Erase, SLC, Industrial
Call for Pricing		32GB to 640GB, MIL Secure Erase, MLC, Industrial
Other Options		
Call for Pricing		Door option for System Front Panel Access. 3D Models Available.
Tray Options		
ADLRHD-1650TRAY		SATA Additional 2.5" Tray

Description

The ADLRHD-1650 has been developed for military and industrial use scenarios that can benefit from MIL-STD 810 shock and vibration durability but also requires frequent SATA drive removal or swapping for data retrieval, maintenance, security and other purposes.

The ADLRHD-1650 features a durable hyperboloid connector with MIL-STD 810 shock and vibration tolerance, positive mating action, low electrical resistance and up to 100,000 2.5" SATA insertions. As well, the ADLRHD-1650 features Military-Class 2.5" SATA III SSDs with milled aluminum casing, ruggedly mounted internal PCB, long-life SLC NAND flash, -40C to +85C operation and Military Erase protocol support. Supported secure erase protocols include DOD NISPOM 5220.22-M, NSA/CSS 9-12, NSA/CSS 130-2, ARMY AR 390-19, and others.

Sub-Assembly Description

The removable hard drive mechanism includes a rugged, milled aluminum sub-assembly that accepts the slide-out tray for the hard drive and includes a mounted PCB with the mating hyperboloid connector for the hard drive on one side, and standard SATA power and data interface on the opposite side.

The sub-assembly is drilled with PC/104 corner mounting holes top and bottom and is compatible with any standard PC/104 stack configuration. It can integrated into the top, middle, or bottom of the PC/104 stack. For ADLMES8200 assemblies, there is enough space for an ADLPS35 power supply to fit side-by-side with this sub-assembly inside the chassis.

Data subject to change without notice.

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