High-Capacity Data Storage for the NetDAS™ Data Acquisition System.

L3 Telemetry & RF Products (L3 T&RF) NetDAS™ Data Storage Module is an extremely compact, lightweight and high-capacity recorder or data storage unit for the NetDAS Data Acquisition System.

This device allows users to easily record data through a standard 10/100/1000 Ethernet bus, or through external or internal PCM sources.

Data may subsequently be extracted over the Ethernet interface, or by removing the 1.8-inch solid-state flash drive and connecting it to a desktop docking station. Standard NetDAS interface modules, including video compression, A429, A664, MIL-STD-1553 bus monitoring and various analog modules, may be combined with the data storage module in a single NetDAS stack creating a fully integrated data acquisition and recording system.

FEATURES

- Up to 256 GB solid-state removable storage, expandable to 512 GB
- Recorder control and status monitoring through the NetDAS interface, via discrete signals or via Chapter 10 Dot commands over an Ethernet interface
- IRIG 106, Chapter 10 recording format, PCM and Ethernet Packet Types
- TMATS (Telemetry Attributes Transfer Standard) records
- Concurrent read/write
- Hot-swappable storage operation media
- Recording rates to 20 Mbps
- Operational Temperature: -40 °C to +85 °C
- MIL-STD-810 and MIL-STD-461-compliant
- Input Power: 22 to 34 VDC, < 10 W
- Weight: ~1.3 lb. (590 g) for a standalone configuration

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Benefits

- Provides small and lightweight unit with high-recording capacity at the lowest cost per gigabyte
- Utilizes Commercial Off-The-Shelf (COTS) industrial rate SATA-II Solid-State Drives (SSDs) to operate reliably in severe environments
- Can be integrated with L-3 T&RF’s NetDAS data acquisition modules to create a complete data acquisition and storage system
- Promotes straightforward future capacity expansion by adding higher-capacity SSDs

Rugged Design

The NetDAS Data Storage Module delivers breakthrough performance by utilizing the latest solid-state storage media developed for the mobile device market. Benefits include low cost per gigabyte, high speed, widespread availability and future expendability. The Data Storage Module’s small and lightweight mechanical packaging is specially designed for the severe temperature, humidity, shock, vibration, altitude and power environments experienced in real-world military and civil aircraft applications.

NetDAS Modules

A NetDAS Data Storage Module (Model NRM-801) consists of two NetDAS “slices”, one storage controller (Model NRC-801) and one media module (Model NMM-801). A second media module may be added to double capacity using a single controller. Each media module accommodates one 1.8-inch SATA-II SSD, with current storage capacity of up to 256 GB.

User Applications

Typical data storage module applications include built-in recording in a stand-alone Data Acquisition System (DAS), high-capacity recording in a larger networked DAS, and rugged Network Attached Storage (NAS) in almost any networked system architecture.