

NADSI Download Workstation

PORTABLE RUGGED WORKSTATION FOR THE TRANSFER AND DISPLAY OF NADSI IMAGERY

The **NATO Advanced Data Storage Interface (NADSI) Download Workstation (NDW)** was designed and developed by the Space Dynamics Laboratory (SDL) to operate as a ground station to support data transfers to and from any NADSI STANAG-4575 compliant removable memory module (RMM). The NDW provides multiple network connections, including Ethernet, USB, and FireWire, for data transfer to an external device.

The ruggedized NDW computer is available in two interfacing configurations: fiber channel and Ethernet. The fiber channel system uses an integrated FX-400 fiber channel host bus adapter, the Granite STANAG-4575 compliant power supply (the NADSI Universal Power Supply), and accessory cables to support data transfers. The NDW cables are designed and built to interface with the two RMM connector types, the circular military connectors and the 50-pin D connectors. The Ethernet system uses the existing 10/100/1000 Ethernet port and implements a COTS power supply brick/cable to support data transfers. A spare hard drive is also supplied with the NDW. In the event that classified imagery data is viewed or processed on the NDW, hardware sanitization can be accomplished through the removal of the classified drive..

The NDW is available in a ruggedized desktop version or a battery-operated laptop version for portable environment use. The desktop NDW can be transported and stored in the provided carrying cases. The CPU packs into a custom wheeled case and the cables, power supply, spare drive, and system image media are stored in a hard-sided aluminum case.



NDW DESKTOP FEATURES

CPU :

- Runs Windows XP Operating System
- 3.4 GHz processor
- 4 GB RAM
- 8.5 GB (4.7 dual-layer) DVD R/W drive
- 750 GB, 7200 RPM removable hard drive
- Optical & copper 32-bit fiber channel host bus adapters

SUPPORTED DATA FEATURES:

- Fiber (32-bit optical and copper)
- USB 2.0
- Ethernet (10/100/1000)
- Parallel
- Serial
- IEEE 1394b (FireWire)

DIMENSIONS : CPU: 12.25" (W) x 9.25" (D) x 13.38" (H)
Accessory Case 21.33" (W) x 18.00 (D) x 7.88 (H)

WEIGHT : CPU 39.5 lb (31.5 lb. in accessory case)

POWER : 110 to 220V, and 50 to 60 Hz AC

NDW LAPTOP FEATURES

CPU :

- Runs Windows XP Operating System
- 1.66 GHz processor
- 4 GB RAM
- 8.5 GB (4.7 dual-layer) DVD R/W drive
- 250 GB, 7200 RPM removable hard drive (spare hard drive included)
- Optical & copper 32-bit fiber channel host bus adapters

SUPPORTED DATA FEATURES:

- Fiber (32-bit optical and copper)
- USB 2.0
- Ethernet (10/100/1000)
- Parallel
- Serial
- IEEE 1394b (FireWire)
- External VGA

DIMENSIONS : CPU: 13.08" (W) x 10.52" (D) x 3.37" (H)
Accessory Case 21.33" (W) x 18.00 (D) x 7.88 (H)

WEIGHT : CPU 12.59

POWER : 90W (110 to 220V, and 50 to 60 Hz AC) or off a 7800mAh Li-Ion Battery



Space Dynamics
LABORATORY
Utah State University Research Foundation

