

# FRED DX

(Dual Xeon)

Is FRED SR's Dual Xeon power  
in a standard FRED chassis

## Features:

- Ultra Bay II Integrated/internal system solution
- Integrated Forensic Media Card Readers
- Custom Front Panel Connections
- Removable Drive Trays
- 2 High Capacity Hard Drives
- Ventilated Imaging Shelf



## Dual Xeon Quad Core Speed (8 Processors)

Dual Processor system implementations have traditionally been "server centric" with: outdated chipsets, poor memory bandwidth, poor I/O bandwidth, and limited support for integrated peripherals. Digital Intelligence has designed the first Dual Processor system with all the pre-requisite performance, flexibility, and reliably required of a Forensic Recovery of Evidence Device (FRED). This system is built on a dual-processor 64-bit Xeon Motherboard, with outstanding flexibility, integrated peripheral support, and performance far beyond anything previously seen in a Forensic Workstation.

FRED is the **F**orensic **R**ecovery of **E**vidence **D**evice. The FRED family of forensic workstations are highly integrated, flexible and modular forensic platforms and now includes Digital Intelligence exclusive UltraBay II Write Protected Imaging Bay.

The Digital Intelligence UltraBay II can be used to acquire a forensically sound image of IDE, SATA, SCSI, FW & USB drives. Drives may be connected and removed from the UltraBay II without having to shut down the workstation or leaving the GUI.

FRED systems are optimised for stationary laboratory acquisition and analysis. Simply remove the hard drive(s) from the suspect system and plug them into FRED and acquire the digital evidence.

FRED will acquire data directly from IDE/EIDE/ATA/SATA/ATPI/SCSI I/SCSI II/SCSI III hard drives and storage devices and save forensic images to DVD, CD or hard drives.

FRED systems also acquire data from floppies, CD-ROM, DVD-ROM, Compact Flash, Micro Drives, Smart Media, Memory Stick, Memory Stick Pro, xD Cards, Secure Digital Media and Multimedia Cards. Furthermore, with the optional tape drive FRED is capable of archiving to or acquiring evidence from DLT-V4 tapes. FRED DX now has a variety of Internal RAID options. All FRED systems include the Ultrabay II, custom front panel connections, and removable drive trays so there is no need to open up the processing system to install drives or crawl around the back of the unit to attach devices.

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## Technical Data on FRED DX:-

- 23¾" High, 8 3/8", wide, 25¼" deep – 80Lbs
- ATX Server Case: 12 x 5¼", 1100W Modular Power Supply
- Dual Intel Xeon Motherboard (2xLGA1366 sockets supporting 45nm Intel Xeon 5500 Series Quad Core CPU's) Intel 5520/ICH10R Chipset
- Two Intel Xeon 5620 (2.40Ghz) Quad Core CPU (8 Processors total) (upgradeable upon request)
- 12GB Dual Channel 128 bit DDR3-1333 Registered ECC Memory (upgradeable upon request)
- Nvidia GT430 PCI-Express Video Card (1GB) 1 Display Port, 1 HDMI, 1 DVI Port
- Dual 10/100/1000 Mbs Gigabit Ethernet Network Adaptors
- 8 Channel Audio Controller
- 6 Ports (6 drives) Primary 3.0Gb/s Serial ATA (SATA)
- Serial (COM1) Port
- 1 RJ-45 Port for iKVM (requires ASMB4 Card)
- 2 PS/2 Ports (keyboard/mouse)
- 5 USB 2.0 Ports 2 back mounted, 3 Front Mounted (1 write blocked)
- 3 FireWire IEEE 1394B (800MB/s) Ports 1 back mounted, 2 Front mounted (1 write blocked)
- Digital Intelligence UltraBay Hardware Write-Blocker:
  - Integrated IDE Drive Write Blocker - Integrated SATA Drive Write Blocker
  - Integrated SCSI Drive Write Blocker - Integrated USB Write Blocker
  - Integrated FireWire IEEE 1394B Write Blocker
- Digital Intelligence Integrated Forensic Media Card Readers – One switchable read-only/read-write (MSC, MS Pro, SMC, CFC, MD, SDC, and MMC Memory Card compatible)
- 1 x 300 Gb 10,000 RPM 3.0 Gb/s SATA Hard Drive in Shock-Mounted Tray – OS Drive
- 1 x 1.5 Tb 7200 RPM 3.0 Gb/s SATA Hard Drive in Shock-Mounted Tray – Data Drive
- 1 x Shock Mounted Serial ATA (SATA) Removable Hard Drive Bay (IDE Capable)
- 4 x HotSwap Shock Mounted Universal Removable Hard Drive Bays (IDE/SATA Compatible)
- BD-R/BD-RE/DVD ± RW/CD ± RW Blu-ray Burner Dual-Layer Combo Drive
- 3½" Floppy Diskette Drive with Write Protect Switch
- Extendable/Retractable Imaging Workshelf with integrated Ventilation
- Wireless Keyboard & mouse
- 22" WideScreen LCD Monitor with built-in speakers

### Software

- Microsoft Windows 98SE Standalone DOS (pre-installed & configured)
- Microsoft Windows 7 Ultimate 64 Bit (Pre-Installed & Configured) ◦ Suse Linux Professional (pre-configured)
- Norton Ghost ◦ DVD/CD Authoring software
- DriveSpy, Image, PDWipe, PDBlock, PART ◦ Microsoft Windows XP Pro (Via Downgrade Rights)

### Toolbox Containing

- Adaptors, Terminators and cables: All the necessary cables, adaptors and terminators to image and process internal/external SCSI drives 1.8" IDE (iPod) drives, 2.5" IDE (laptop) drives and 3.5" and 5¼" IDE drives.
- Digital Camera: Useful to document your suspects environment and hardware.
- Security Screwdriver Set: A varied assortment of popular security bits for opening computer enclosures that may have been locked down in a corporate environment

### FRED Tape Option

- LTO Ultrium 4 Internal Tape Drive (800GB Native/1.6TB Compressed)