

FRED-M

The most powerful and flexible single forensic workstation available today

Features:

- FRED- M RAID Array Module
- 3000 VA Rackmount Uninterruptible Power Supply
- FRED- RM (Forensic Recovery of Evidence – (Rackmount Module)
- UltraBay II – Integrated IDE, SATA, SCSI, USB & FW Write blocker.
- Retractable Keyboard/Mouse/17 inch LCD Display Module



FRED-M takes the concept of our FRED-SR one step further. FRED-M is absolutely the most powerful and flexible single forensic workstation available today.

FRED-M takes several of the major components in our Data Centre solution (FRED-C), and incorporates them into a single chassis for the utmost in storage capacity, power, and flexibility.

FRED-M consists of one Forensic Recovery of Evidence Device – Rackmount Module (FRED-RM), one 16 Terabyte RAID module (14TB RAID-5 w/Hot spare), and a retractable keyboard/LCD panel. All equipment is housed in a lockable, vault-like enclosure with high capacity rolling castors.

FRED-M Module Specifications and Options

FRED-M Retractable Keyboard/Mouse/17 inch LCD Display Module

This device is an integrated Keyboard, LCD Display, and Mouse. When the Keyboard/LCD module is not in use, it may be folded down and retracted into the cabinet for storage and security.

FRED-M RAID Array Module

The FRED-M RAID Array Module provides high speed access of 16 Terabytes (16,000 GB) of online storage (14TB RAID-5 w/Hot spare). This module is a 16-Bay, 3U RackMount RAID Enclosure (Fiber Channel Attached/Multilane SAS Cascaded) which is populated with sixteen 1000Gb, 7200 RPM hard drives in Hotswap removable drive trays.

3000 VA Rackmount Uninterruptible Power Supply (UPS)

FRED- RM (Forensic Recovery of Evidence – (Rackmount Module)

The FRED-RM module has the processing functionality of a FRED system integrated into a rackmount module. Although the FRED-RM module is specifically designed to focus on the processing of forensic evidence, it is also capable of acquiring data from IDE/EIDE/ATA/ATAPI/SATA hard drives and devices. The FRED-RM module is equipped with our exclusive UltraBay II write-blocked imaging bay which is used for forensically sound (write-blocked) acquisition of Parallel IDE, Serial ATA, and SCSI/USB and FW devices. The FRED-RM Module will also acquire data from 3-1/2 inch floppies, Multimedia cards, CD-ROM, and DVD-ROM media.

Integrated IDE, SATA, SCSI, USB & FW Write Blockers

The Digital Intelligence UltraBay II can be used to acquire a forensically sound image of IDE, SATA, SCSI, USB & FW drives using your choice of Forensic Imaging Software.

The UltraBay II is exclusively available with Digital Intelligence FRED systems and is not available separately or from any other source.

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Technical Data on FRED-M:-

- **4U Rackmount Enclosure** (8 Bays, 1100W Modular P/S)
- **11U Cabinet: 30" High (with wheels), 23 1/2" Wide, 36" Deep - 375 lbs**
- **i7 Motherboard** with Intel x58/ICH10R Chipset
- **Intel i7 960 CPU (Quad Processor), 3.20 Ghz, 8M Cache, 4.80GT/s Intel® QPI**
- **5 x PCI-Express (x16)), 1 x PCI-Express (x1) slot**
- **12GB DDR3-1600 Triple Channel Memory**
- **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 High Definition Audio Controller**
- **7 Ports Primary 3.0 Gb/s Serial ATA (SATA) Controller** (1 Back Mounted)
- **2 Ports (2 drives) Marvell PCIe SATA 6.0GB/s controller**
- **6 USB 3.0/2.0 Ports:** 3 back mounted, 3 front mounted
- **1 PS/2 Ports** (keyboard & mouse combo)
- **11 USB 2.0/1.x Ports** - 8 Back Mounted, 3 Front Mounted, (1 Write Blocked)
- **1 FireWire IEEE 1394a (400 MB/s) Ports** (1 Back Mounted)
- **3 FireWire IEEE 1394b (800 MB/s) Ports** - 1 Back Mounted, 2 Front Mounted, (1 Write Blocked)
- **Digital Intelligence UltraBay II 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, XD, SDC, and MMC Memory Card compatible)
- **USB 3.5" Floppy Drive with Write Protect Switch**
- **BD-R/BD-RE/ DVD + RW / CD + RW Blu-ray Burner Dual-Layer Combo Drive**
- **LTO Ultrium 4 Tape Drive (800GB Native 1.6TB Compressed)**
- **1 x 300Gb 10,000 RPM 3.0 Gb/s SATA Hard Drive in Shock-Mounted tray** – OS Drive
- **1 x 1.5Tb 7200 RPM 3.0Gb/s SATA Hard Drive in Shock-Mounted Tray** – Data Drive
- **2 x Shock Mounted Serial ATA (SATA) Removable Hard Drive Bays** (IDE capable)
- **1 x Hotswap Shock Mounted Removable Hard Drive Bay** (IDE/SATA Capable)
- **Extendable/Retractable Imaging Workshelf** with Integrated Ventilation

Toolbox Containing

- **Adaptors, Terminators, and Cables:** All the necessary cables, adaptors, and terminators to image and process internal/external SCSI Drives, 1.8 inch IDE (ipod) drives, 2.5 inch IDE (laptop) drives, and 3½ and 5¼ inch 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.

Software

- **MS-DOS 6.22** (Pre-Installed & Configured)
- **Microsoft Windows 98SE Standalone DOS** (Pre-Installed & Configured)
- **Microsoft Windows 7 Ultimate 64 Bit** (Pre-Installed & Configured)
- **Suse Linux Professional** (Pre-Configured)
- **Norton GHOST**
- **Nero DVD/CD Authoring Software**
- **DriveSpy, Image, PDWipe, PDBlock, PART**

Other Options are Available upon Request

All systems can be upgraded or modified according to customers requests. Typical options include Processor Upgrades, Hard Drive Upgrades or additions, and additional bundled forensic software as requested.

Other Products:-

- Forensic Tools
- Hard Disk Duplicators
- Floppy Disk Copiers
- CD Duplicators
- CD Printers

Media Duplication Services For:-

- Floppy Disk
- CD
- DVD
- Tape
- Blank Media Supply
- Standard or Customised Packaging
- Fulfilment Service