Digital ⬧Intelligence®

Digitalintelligence.com

DI FRED SR™ with front panel doors opened

Our Mission

At Digital Intelligence, we combine the knowledge gained from years of providing digital forensics and eDiscovery services with a deep understanding of digital technology to build and deliver solutions that *Give Voice to Digital Evidence*™.

USB 3.0 Hub (top), Forensic Card Reader (bottom)

FRED SR™

FORENSIC RECOVERY OF EVIDENCE DEVICE

FRED SR™ - Extreme Power and Enormous Data Storage

The Digital Intelligence FRED Sr is a top-of-line, Dual Xeon® based forensic workstation with enormous local data storage capacity. Using Intel® Silver, Gold, and Platinum CPUs, FRED Sr is designed to optimize the performance of modern multi-threading forensic software.

The Ultimate in Performance and Local Data Storage

Each FRED SR comes standard with a triple RAID chassis containing 15 hard drives for reliable, redundant high-capacity storage. Using 10 TB drives, the effective RAID5 storage capacity of a FRED SR is 140 TB.   For evidence/case data archival, FRED SR includes an LTO Ultrium 7 tape drive capable of archiving up to 15 TB of compressed data.

FRED Sr is a great solution for forensic departments seeking to transition from local hard drive evidence storage to on-line evidence storage in a non-datacenter environment. Cleanup your lab's assortment of individual HDD's with FRED Sr's enormous on-line storage -- and add data redundancy as well.

Unmatched Forensic Imaging: UltraBay 4d™ and Forensic Drive Trays

New for 2019, FRED Sr systems gain additional forensic imaging capability through innovative FRED HotSwap Forensic Drive Trays.   Integrated using USB 3.1 technology, FRED Forensic Drive Trays support imaging of SATA drives in a forensically sound manner. These trays are user-selectable Read/Write or Read Only, doubling their system utility. Using modern forensic imaging software, speeds in excess of 24 GB/min have been attained.

The venerable UltraBay 4d is a proven workhorse used to image SATA, SAS, USB, FireWire, IDE, and PCIe storage devices. The touch-screen UI displays device information independent of the OS. Using Tableau Imager, the UltraBay 4d supports simultaneous or sequential drive imaging when multiple devices are connected. For general purpose drive work, a front panel switch securely manages switching to and from read only to read-write mode.

Flexibility to Add Features with New Drive Tray Ecosystem

Have you ever needed additional USB connections or forensic imaging capability for SD cards? With a FRED, adding or changing connections is as simple as swapping a feature focused drive tray. This innovation allows you to change your FRED configuration on the fly as your case work calls for it. USB 3.0 and SD Forensic Card Reader trays are available today. Contact Digital Intelligence for more information about the FRED drive tray ecosystem.

FEATURE	FRED SR™ - Forensic Recovery of Evidence Device Technical Specifications

Processors	Quantity 2 - Intel® Xeon® Silver series 4110 CPUs, 8 core, 2.1 GHz, 11 MB cache. Available CPU options:
	  Silver Series: 4, 10, and 12 cores
	  Gold Series: 4, 8, 10, 12, 14, and 18 cores
	  Platinum Series: 24 and 28 cores
	Note: FRED Sr systems included two (2) Xeon processors, effectively doubling the core counts shown above

Memory	32 GB ECC Memory PC4 21300 DDR4-2666 MHz (Configurable options: 64, 128, 256, 512, and 786 GB)
Chipset	Intel® C621 chipset
Software	Microsoft Windows® 10 Professional 64-bit, open SUSE Linux 64-bit, Symantec® Ghost, CD/DVD authoring software
Graphics	NVIDIA® GeForce™ GTX 1050Ti 4 GB 128-bit DDR5, 768 CUDA cores. Upgrades available to NVIDIA RTX 2080 or RTX 2080Ti

Hard-drive Storage	Up to six (6) storage drives (not including triple RAID chassis):
	  Operating System - 512 M.2 NVMe SSD
	  Database/Cache/Temp - 512 GB SSD SATA III hard drive
	  Case/Data - 2 TB 7200 RPM SATA III hard drive
	  Additional: One SATA HotSwap, SATA connected and three SATA drives in USB 3.1 connected HotSwap drive bays.
	Many drive capacities/types are available

Drive Bays	2 x native SATA, shock mounted, removable trays 3 x hot swap USB 3.1 connected SATA, shock mounted, removable trays Optional IDE tray available for legacy drives
DVD/CD/Blu-ray	BD-R/BD-RE/DVD±RW/CD±RW Blu-ray Burner, Dual-Layer Combo Drive

Forensic Imaging / Write Blocking	DI UltraBay 4d™ forensic bridge - write blocks SATA,SAS,USB3.0/2.0/1.1, IDE, FireWire, and PCIe SSD storage devices;
	Touch-screen user interface supports local, on-screen access of device information including:
	  • Storage media details
	  • LUN selection
	  • Management of HDD protected regions
	  • File system partitions (independent of the FRED OS)
	Supports simultaneous and sequential forensic imaging of multiple storage devices; Supports hot-swap device connection; Available exclusively from DI on FRED systems

Hard Drive Cooler Shelf	DI exclusive extendable / retractable imaging work-shelf with integrated ventilation for drive cooling
Media Card Reader	DI Forensic Media Card Reader - user selectable read/write or read only access
Tape Drive	LTO Ultrium 7 tape drive (6 TB uncompressed / 15 TB compressed)
RAID Storage	12 channel PCIe 12 Gb/s SAS/SATA RAID controller Qty 3 x 5 bay RAID chassis (15 drives total) Many hard drive options available
Networking	Dual Intel® 10/100/1000 Mbps gigabit Ethernet adapters Optional 1 and 2 port Intel® 10 GbE network adapters (RJ-45 copper) available
Connections & Expansion	9 USB 3.1 2 USB 3.1 Type C 4 USB 2.0 1 write blocked SATA port - front access, read/write switchable through UltraBay 4d 1 write blocked SATA or SAS port - front access, read/write switchable through UltraBay 4d 1 write blocked PCIe port - front access, read/write switchable through UltraBay 4d 1 write blocked USB 3.0/2.0/1.1 port - front access, read/write switchable through UltraBay 4d 1 write blocked IDE port - front access, read/write switchable through UltraBay 4d 1 write blocked FireWire 1394 A/B (400/800 MB/s) port - front access, read/write switchable through UltraBay 4d
Drive Tray Ecosystem	3-port, USB 3.0 HUB; Read/Write; Suitable for license dongles or general purpose USB devices Multi-port Forensic Card Reader; User Selectable Read/Write and Read Only
Storage Controller	8 ports Intel® 6 Gb/s SATA Controller, 1x Intel®M.2 x 4 PCIe Socket, 1 x ASMedia® 2 x 6Gb/s SATA port
Audio	Realtek® ALC1150 8-channel high definition audio CODEC
Keyboard / Mouse	Microsoft wireless desktop keyboard and mouse combo
Display	22" (21.5" Vis) ergonomic LED monitor, 1920 x 1080 full HD resolution, height adjust, tilt and swivel functions, built-in speakers
Power Systems	1200 Watt modular power supply
Warranty & Support	Hardware warranty is 36 months from date of purchase. Extended warranty options available. Lifetime technical support
Accessory Toolbox	Adapters and cables: SAS, SATA, IDE, microSATA, SATA LIF, MacBook Air Blade SSD, PCIe SSD m.2 NVMe, PCIe SSD MacBook Pro (2013 and newer), and server class PCIe SSD Security screwdriver set: Assorted security bits for opening computer enclosures
Dimensions and Weight	23.5 " H x 16.125 "W x 28" D, 140 lbs.