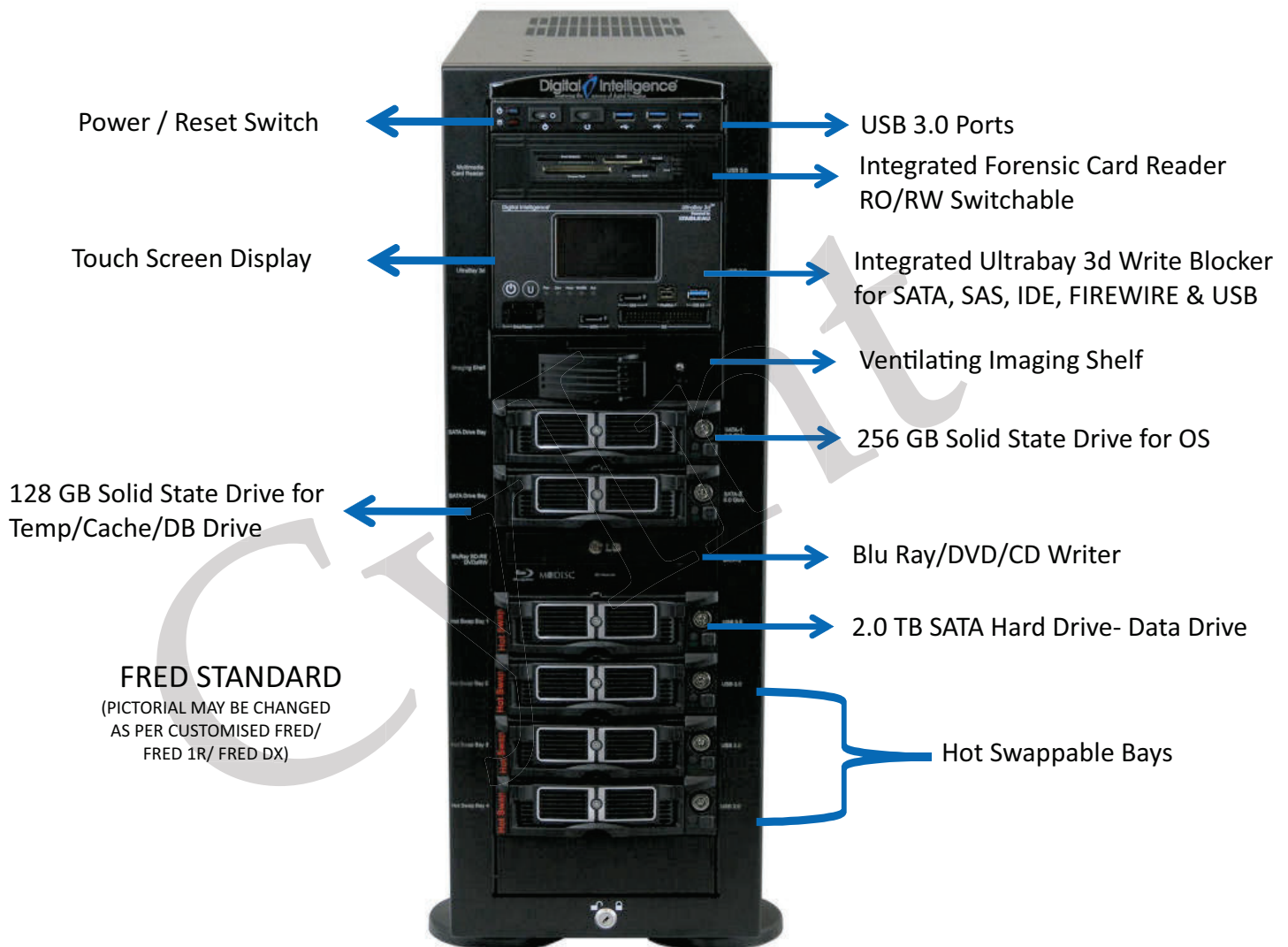


Forensic Workstation

Forensic Recovery of Evidence Device (F.R.E.D.)



FRED Workstations Variants:

- **FRED Standard (i7 Processor Based)**
- **FRED DX Standard (Dual Xeon Based)**
- **FRED Standard (i7 Processor Based) with Single Raid**
- **FRED Standard (i7 Processor Based) with Dual Raid**
- **FRED DX Standard (Dual Xeon Based) with Single Raid**
- **FRED DX Standard (Dual Xeon Based) with Dual Raid**

Technical Data Sheet - FRED

FRED is Forensic Recovery of Evidence Device. The FRED family of Forensic Workstations are highly integrated, flexible and modular forensic platforms that include Digital Intelligence's exclusive UltraBay 3D Write Protected Imaging Bay and Ventilated Imaging Shelf.

The Complete Forensic Hardware Solution

FRED systems are optimized 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/ATAPI/SAS/Firewire/USB hard drives and storage devices and save forensic images to Blu-Ray, DVD, CD or hard drives. FRED systems also acquire data from Blu-Ray, 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 LTO Ultrium 5 tapes. All FRED systems include the UltraBay, 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.

UltraBay 3d

The UltraBay 3d™ is the industry's first USB 3.0 integrated forensic bridge that includes a touch screen display and a graphical user interface for acquisition process monitoring (when using Tableau Imager). The UltraBay 3d™ provide the ultimate flexibility for write-locked acquisitions from up to eight different types of storage media: IDE, SATA, SAS, USB 3.0/2.0/1.1 and FireWire 400/800.



Ventilating Imaging Shelf

Standard FRED systems include our ventilated imaging shelf for maximum drive cooling during the imaging process:

- Integrated Retractable imaging shelf (fully retracts into the system when not in use).
- Dual fans for maximum cooling and surface coverage.
- Auto On/Off switch when shelf is opened or closed.
- Slotted, cushioned, non-conductive, non-skid, surface supports all popular drive sizes (3-1/2", 2-1/2", 1.8", etc).



Fast, Functional and Flexible

FRED systems come with three high speed drives (two SSDs and one 7200 rpm mechanical). The first SSD is used for your Operating System(s), forensic acquisition and processing tools, the second SSD as a Temp/Cache/DataBase resource and the third as a work drive for restoring and processing digital evidence. FRED comes pre-installed with a Dual-Boot Operating System (Win98 DOS, and Windows 8.1 Professional) on the Primary Drive. Additionally, a fully-loaded, pre-configured Suse Linux installation image is also included on factory restore Blu-ray for installation if desired. All three drives are supplied in shock-mounted removable drive trays. Most FRED Systems also come with integrated hot-swappable IDE and SATA bays to enable rapid installation and removal of evidence storage drives without the need for rebooting the system.

Built In Network Functionality

All FRED systems can be connected directly to a network (10/100/1000 Mb ethernet) for use as a standard workstation or file server when not processing or acquiring data.

Baseline FRED Specifications

- 23-3/4" High, 8-3/8" Wide, 25 1/4" Deep - 80 lbs
- Intel Core i7-5820K CPU (Hex Core Processor), 3.3 GHz, 10MB Intel Smart Cache, 5 GT/s DMI
- 32 GB (4x8GB)PC3-17000 DDR4 2133 MHZ Memory
- 1 x 256 GB Solid State SATA III Drive - OS Drive
- 1 x 128 GB Solid State SATA III Drive - Temp/Cache/DB Drive
- 1 x 2.0 TB 7200 RPM SATA III Hard Drive - Data Drive installed in HotSwap Bay1
- Nvidia GTX 750Ti 2GB 128 bit DDR5 PCI-Express Video Card with 1 VGA (D-Dub), 1 HDMI, and 2 DVI ports - supports upto 4 displays
- 22" WideScreen LCD Monitor with Built-in Speakers
- Windows 8.1 Professional (64 bit)
Also includes: DOS (Win98 Standalone), SUSE Professional Linux (64 bit)
- Hardware Write Blocking:
Digital Intelligence UltraBay 3d Hardware Write-Blocker with touch screen display:
 - Integrated IDE Drive Write Blocker
 - Integrated SATA Drive Write Blocker
 - Integrated SAS Drive Write Blocker
 - Integrated USB 3.0/2.0 Write Blocker
 - Integrated FireWire IEEE 1394b Write Blocker
 - Digital Intelligence Integrated Forensic Media Card Reader - Read-Only and Read/Write switchable

Detailed System Specifications

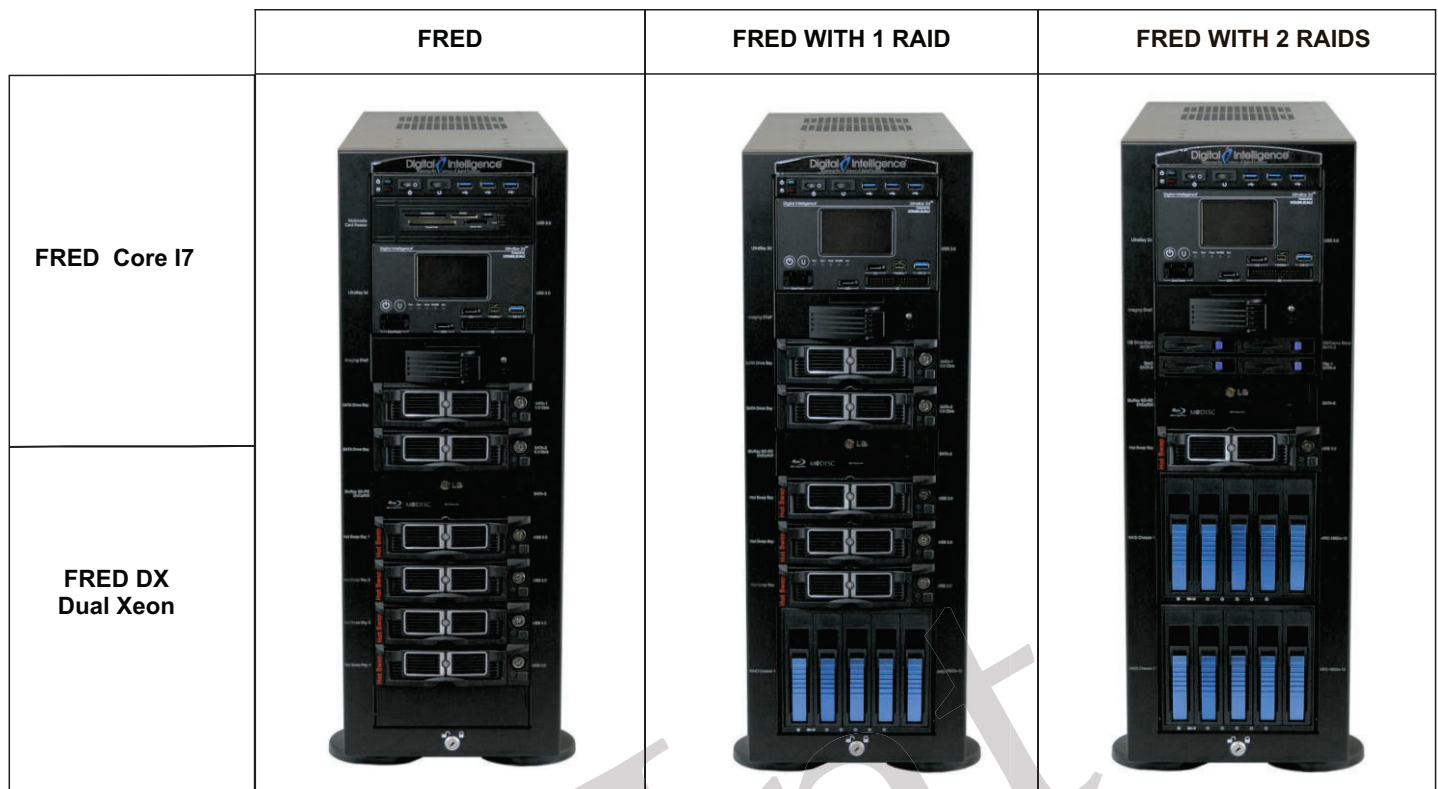
- ATX Tower Case 12 x 5 1/4" Bays
- 1100 Watt Modular power supply
- i7 Motherboard with Intel X99 Chipset
- 7 PCI-Express 3.0(x16) Slots
- 8 ports Intel 6 Gb/s SATA Controller
- 1 port Intel SATA Express Controller (or 2 x SATA 6 Gb/s ports)
- 1 port ASMedia SATA Express Controller (or 2 x SATA 6 Gb/s ports)
- 8 Channel High Definition Audio CODEC featuring Crystal Sound 2
- 2 RJ45 LAN ports (Intel I210-AT, 1 x Gigabit LAN Intel I218LM, 1 x Gigabit LAN Controllers)
- 2 eSATA 6 Gb/s ports - ASMedia controller
- 16 USB 3.0/2.0 ports - 13 Back Mounted, 3 Front Mounted
- 1 Write Blocked USB 3.0/2.0 port - Front Mounted
- 2 FireWire IEEE 1394b (800 MB/s) ports - 1 Back Mounted, 1 Front Mounted (Write Blocked)
- 2 x Shock Mounted SATA Removable Hard Drive Bays (IDE Capable)
- 4 x HotSwap Shock Mounted Universal (IDE/SATA compatible) Removable Hard Drive Bays
- BD-R/BD-RE/DVD±RW/CD±RW Blu-ray Burner Dual-Layer Combo Drive
- Extendable/Retractable Imaging Workshelf with integrated ventilation
- 103 key Keyboard and Mouse Combo - Wireless
- Toolbox containing: Adapters, Cables, Security Screwdriver Set and OEM Documents
- Other Software included: Symantec Ghost, CD Authoring Software, DRIVESPY, IMAGE, PDWIPE, PART, and PDBLOCK

Tool Box Containing

- CD Case: Containing system restore media.
- System Keys: For removable hard drive bays and front case bezel.
- Adapters and Cables: Cables and adapters to image and process internal/external drives including SAS, SATA, IDE, microSATA, SATA LIF, MacBook Air Blade Type SSDs, mini/micro SSD cards, 1.8 inch IDE (iPod) and 2.5 inch IDE (laptop).
- Security Screwdriver Set: A varied assortment of popular security bits for opening computer enclosures that may have been locked down in a corporate environment.



CUSTOMIZED FRED AVAILABLE WITH OPTION OF HIGHER CAPACITY OF RAM, PROCESSOR, HARD DISKS, SOLID STATE DRIVES, TAPE DRIVE, SINGLE/ DUAL RAID.



Options Available

	FRED - Core I7 / FRED - Core I7 1R / FRED - Core I7 2R	FRED DX / FRED DX - 1R / FRED DX - 2R
CPU	i7-5820K Quad Core 3.3GHz - Standard i7-5930K Hex Core 3.5GHz - Optional i7-5960X Hex Core 3.0GHz - Optional	E5-2620 v3 CPU (6 core) - Standard E5-2640 v3 CPU (8 core) - Optional E5-2660 v3 CPU (10 core) - Optional E5-2680 v3 CPU (12 core) - Optional E5-2695 v3 CPU (14 core) - Optional
RAM	32 GB DDR4-2133 - Standard 64 GB DDR4-2133 - Optional	32 GB DDR4 - 2133 ECC - Standard 64 GB DDR4 - 2133 ECC - Optional 128 GB DDR4 - 2133 ECC - Optional
OS Drive	256 GB Solid State Drive - Standard 512 GB Solid State Drive - Optional 1.0TB Solid State Drive - Optional 2.0TB 7200rpm - Optional (Not Available in FRED 2R)	256 GB Solid State Drive - Standard 512GB Solid State Drive - Optional 1.0 TB Solid State Drive - Optional 2.0 TB 7200 rpm - Optional (Not Available in FRED DX 2R)
Temp/Cache/DB Drive	128GB Solid State Drive - Standard 256GB Solid State Drive - Optional 512GB Solid State Drive - Optional 1TB Solid State Drive - Optional	128GB Solid State Drive - Standard 256GB Solid State Drive - Optional 512GB Solid State Drive - Optional 1TB Solid State Drive - Optional
DATA Drive	2.0TB 7200rpm SATA Drive - Standard 4.0TB 7200rpm SATA Drive - Optional 6.0TB 7200rpm SATA Drive - Optional (Not Available in FRED 2R) 128GB Solid State Drive - Optional 256GB Solid State Drive - Optional 512GB Solid State Drive - Optional 1TB Solid State Drive - Optional	2.0TB 7200rpm - Standard 4.0TB 7200rpm - Optional 6.0TB 7200rpm - Optional 128GB Solid State Drive - Optional 256GB Solid State Drive - Optional 512GB Solid State Drive - Optional 1TB Solid State Drive - Optional
RAID Drives (AVAILABLE IN 1R AND 2R ONLY)	5 x 500GB 7200rpm - Standard in FRED 2R (Optional in FRED 1R) 5 x 2.0TB 7200rpm - Standard in FRED 1R (Optional in FRED 2R) 5 x 4TB 7200rpm - Optional 5 x 6TB 7200rpm - Optional 5 x 512GB Solid State Drive - Optional 5 x 1TB Solid State Drive - Optional	5 x 500GB 7200rpm - Standard in FRED DX 2R(Optional in FRED DX 1R) 5 x 2TB 7200rpm - Standard in FRED DX 1R (Optional in FRED DX 2R) 5 x 4TB 7200rpm - Optional 5 x 6TB 7200rpm - Optional 5 x 512GB Solid State Drive - Optional 5 x 1TB Solid State Drive - Optional
#2 RAID Drives (AVAILABLE IN 2R ONLY)	5 x 2TB 7200rpm - Standard 5 x 4TB 7200rpm - Optional 5 x 6TB 7200rpm - Optional 5 x 512GB Solid State Drive - Optional 5 x 1TB Solid State Drive - Optional	5 x 2TB 7200rpm - Standard 5 x 4TB 7200rpm - Optional 5 x 6TB 7200rpm - Optional 5 x 512GB Solid State Drive - Optional 5 x 1TB Solid State Drive - Optional