

FRED Forensic Workstations

> **FRED** FRED DX FRED SR 3.5 GHz, Intel i7-7800X, 6 Processor Intel Silver Series 4110 CPU, 8 core, 2.1 GHz, 11MB Cache Core, 8.25 MB Cache Optional CPUs available: Silver series - 4, 10, and 12 cores Optional CPUS available: i7 CPU options: 8 cores Gold series - 4, 8, 16, 18, and 20 cores i9 CPU options: 10, 12, 14, 16, Platinum series - 24 and 28 cores and 18 cores available 32 GB ECC Memory PC4 21300 DDR4-2666 MHz Memory 32 GB PC4-21300 DDR4 2666 MHz - configurable up to 128 configurable up to 768 GB Software Microsoft Windows 10 Professional, 64-bit OpenSUSE Linux 64-bit Symantec Ghost Graphics & Video Nvidia GTX 1050Ti, 4GB, 128-bit GDDR5, 768 CUDA cores Support upgrades available to NVIDIA RTX 2080 or RTX 2080Ti GPUs Storage 512 GB NVMe PCle SSD (OS) 512 GB SSD SATA III (Database/Cache/Temp) 2 TB SATA III 720 RPM HotSwap (Case/Data) additional drive / storage options available Extra Storage Slots FRED FRED DX 3 HotSwap Drive Bays 4 HotSwap Drive Bays 4 HotSwap Drive Bays 2.5"/3.5" SATA III (USB 3.1 2.5"/3.5" SATA III (USB 3.1 2.5"/3.5" SATA III (USB 3.1 connected) connected) connected) 2 HotSwap Drive Bay 2.5"/3.5" SATA III (SATA connected) 2 HotSwap Drive Bay 2 HotSwap Drive Bay 2.5"/3.5" SATA III (SATA 2.5"/3.5" SATA III (SATA connected) connected) 1 NVMe SSD FRED DX 1R 3 HotSwap Drive Bays FRED 1R 2.5"/3.5" SATA III (USB 3.1 3 HotSwap Drive Bays connected) 2.5"/3.5" SATA III (USB 3.1 connected) 2 HotSwap Drive Bay 2.5"/3.5" SATA III (SATA 2 HotSwap Drive Bay connected) 2.5"/3.5" SATA III (SATA connected) FRED DX 2R 4 x 2.5" HotSwap Drive Bay 1 NVMe SSD SATA III (SATA connected) FRED 2R 4 x 2.5" HotSwap Drive Bay SATA III (SATA connected) 1 NVMe SSD Storage Controller Intel 6 Gb/s SATA (8) Intel 6 Gb/s SATA (8) Intel 6 Gb/s SATA (8) Intel M.2 x 4 PCle Socket (1) Intel M.2 x 4 PCle Socket (2) Intel M.2 x 4 PCIe Socket (1) ASMedia 6 Gb/s SATA (2) ASMedia 6 Gb/s SATA (2) **RAID Controller** 16 Channel PCIe 12 Gb/s 12 Channel PCIe 12 Gb/s SAS/SATA SAS/SATA (with 1-RAID and 2-RAID FRED configurations only) **RAID Capacity** 1R, 5 Drive RAID Chassis: Up to 50 TB using 10 TB hard drives Three (3) x Five (5) bay RAID 2R, Dual 5 Drive RAID Chassis: Up to 100 TB using 10 TB hard chassis (15 drives total). Five 2 TB (8 TB RAID5) is baseline drives configuration. RAID capacity Additional RAID configurations and drive options available up to 140 TB using 10 TB drives. Additional RAID configurations and drive options available. **Network Performance** Dual Intel 10/100/1000 Mbps gigabit Ethernet adapters Single or dual port 10 Gb Ethernet adapters available **Drive Bays** Native SATA, shock-mounted, Native SATA, shock-mounted, removable removable (2) FRED and FRED DX (2) FRED 1R and FRED DX 1R (2) Hot-swap, USB 3.1 connected FRED 2R and FRED DX 2R (4) SATA III, shock-mounted, read only or read write selectable, Hot-swap, USB 3.1 connected SATA III, shock-mounted, read removable (3) only or read write selectable, removable FRED and FRED DX (4) FRED 1R and FRED DX 1R (3) FRED 2R and FRED DX 2R (1) Forensic Imaging & UltraBay 4d hardware write blocked imaging of SATA, SAS, USB 3, IDE, Firewire and PCIe SSD devices Single or multiple (concurrent) forensic imaging of storage devices Convenient front panel write blocked or read/write switch for general drive management UltraBay 4d touch-screen user interface. Displays device details, display and manage LUNs and HDD protected regions. Examine file partitions. FREDs ship with Tableau Imager (TIM) pre-installed In addition to the the UltraBay 4d, all FRED USB 3.1 connected HotSwap Forensic Drive Trays are user switchable between read write and read only modes of operation, increasing the forensic imaging capacity of SATA drives (3.5"/2.5")

Write Blocking

Drive Cooling

Media Card Reader UltraBlock Forensic Card Reader User selectable write blocked or read/write

Expansion

External Connections &

Display, Keyboard &

Electrical Operating

Mouse

Audio

Support

USB 3.1 Gen 1 ports (10) USB 3.0 (9) USB 2.0 (4) USB 3.1 Gen 1 Type C (1) USB 2.0 (2) USB 2.0 (4)

USB 3.1 (1)

USB 3.1 Type C (1)

Optional 22" ergonomic LED monitor 1920 x 1080 full HD resolution

1200 Watt modular power supply

Precision electronics tool kit with assorted bits for opening enclosures

Lifetime technical support (email, phone and via website). Standard warranty 36 months from date of purchase.

Extended warranty plans available

Exclusive extendable / retractable imaging work shelf with active ventilation for suspect drive cooling

USB 3.1 (9)

Realtek ALC1150 8-channel high definition audio CODEC

USB 3.1 Type C (2)

Adjustable height, tilt and swivel. Built in speakers Microsoft wireless desktop keyboard and mouse

Realtek ALC2250 8-channel

high definition audio CODEC

USB 3.1 Gen 2 (1)

USB 3.1 Gen 2 Type C (1)

featuring Crystal Sound 2

DVD/CD/Blu-Ray BD-R/BD-RE/DVD±RW/CD±RW BluRay burner, dual-layer combo drive

Line voltage: 100-240 VAC Requirements Frequency: 50-60 Hz

Forensic toolbox including adapters and cables: (SAS, SATA, IDE, microSATA, SATA LIF, Accessories MacBook Air Blade, PCle SSD m.2 NVMe, PCle SSD MacBook Pro (2013 and newer) and server class PCIe SSD

Warranty & Technical

Configure to Order Configure your system with available options, obtain pricing and place an order by visiting the FRED and FRED DX product pages