



Shown above: FREDC Workgroup Server
in standard 24U cabinet (front door removed)

FREDC-WS™

FORENSIC WORKGROUP SERVER

A Preconfigured, Fully Integrated Forensic Network Server

Forensic organizations considering implementing a new data and file server should take a look at the FREDC™ Workgroup Server (FREDC-WS). Digital Intelligence® built this solution to be a very high-performance, fully integrated alternative to traditional white-box enterprise servers. Based upon the technology used in our larger FREDC Data Center™, the Workgroup Server is a great solution for moderately sized forensic teams.

Departmental File & Data Server with the FREDC Pedigree

At the heart of each system is a FREDC Server-RM™ module. Each FREDC-WS is powered by Intel® Xeon® technology running a performance tuned Debian Trixie GNU/Linux operating system. This combination provides the efficient file and data sharing that forensic departments need -- without the hassles of managing a traditional server environment.

High Capacity Fault-Tolerant, Local Storage

The base FREDC-WS ships standard with ten (10) internal 18 TB hard-drives provide a maximum raw data storage capacity of 180 TBs. Accounting for network backup space and RAID6 striping, a total of 139 TB of fault-tolerant data storage is available. Need a bit more storage? The FREDC-WS has capacity to add one (1) FREDC RAID-RM™ module. With the optional RAID-RM, the total FREDC-WS data capacity is 612 TB raw, 486 TB RAID6 striped.

The FREDC Workgroup Server includes a LTO-8 tape library for user and case data archival. NetVault® backup software is included for regular system backups and long-term archival of forensic data to tape.

Connect Up To 24 Forensic Workstations & Other Devices

The FREDC Workgroup Server includes a 10 GbE 24-port network switch with 24-port patch panel providing ample physical connections for a moderately sized forensic department. Whether it's workstations, network printers, or other network enabled forensic devices (such as forensic imagers) our proven network infrastructure will provide the performance and stability you need.

FREDC Workgroup Server includes the Digital Intelligence software utilities built to make it easy to manage a high-performance forensic network and data/file server.

Central Dongle Sharing Helps to Manage Software License Costs

More and more forensic teams are choosing to manage their license dongles centrally in an effort to gain efficiency and lower costs. The FREDC Workgroup Server supports this through a 10-port USB hub with dongle sharing software.

Features / Modules	FREDC-WS™ - Forensic Workgroup Server Technical Specifications
Server-RM™	Intel® Xeon® 658X 24-core, 48-thread CPU with 144 MB Smart Cache. Clock speed up to 4.9 GHz. Upgrades available, contact us for more information
Memory	128 GB ECC memory PC5-38400 4800 MHz RAM; Expansion options up to 512 GB are available
Chipset	Intel W890 chipset
Server Operating System	Debian Trixie GNU/Linux operating system; Symantec® Ghost
Hard Drive Storage	180 TB internal RAID array (139 TB RAID6, 10 x 18 TB drives) 1 x 500 GB 7200 RPM SATA disaster recovery drive (in drive bay enclosure) 1 x 2.5" / 3.5" SATA Drive Chassis with external access
Fault-Tolerant Storage	Data capacities: • Base FREDC-WS raw: 180 TB • Base FREDC-WS RAID6: 139 TB With addition of one (1) RAID-RM module (optional): • Total FREDC-WS raw: 612 TB • Total FREDC-WS RAID6: 486 TB
License Dongle Sharing	Ten (10) port USB 3.1 hub with Eltima license dongle sharing solution
Server Management	Standard suite of FREDC network management software utilities including: * FCCInstall - Prepare stock workstation for use with FREDC Workgroup Server * DIWIMS - Create and maintain functional images of connected workstations * NetLogon - Forensic workstation drive mapping and time sync * DIDRE - "Bare metal" recovery of the server to a known good state
Network switch	10 GbE 24-port network switch (RJ45-copper)
Network Connections	24-port patch panel with CAT 6A cables
Networking	Intel X710-T4L quad-port 10 GbE network adapter and Intel X710-AT2 dual-port 10 GbE controller (RJ45-copper)
Expansion & Connections	1 USB 3.2 Gen 2x2 (20 Gbps) Type-C port - rear access 1 USB 3.2 Gen 2 (10 Gbps) Type-C port - rear access 4 USB 3.2 Gen 2 (10 Gbps) Type-A ports - rear access 10 USB 3.1 Gen 1 (5 Gbps) Type-A ports - front access (for license dongles) 4 USB 2.0 Type-A ports - 2 front access / 2 rear access
Storage Controllers	2 x M.2 slot (Key M), PCIe 5.0 x4 mode (2242/2260/2280/22110); 1 x M.2 slot (Key M), PCIe 4.0 x4 mode (2242/2260/2280); 2 x SlimSAS slots; 8 x SATA 6 Gb/s ports
Data / Case Archival	LTO-8 Ultrium Drive, 24 slot library, SAS interface.; LTO-9 upgrade option available
Backup Software	NetVault® backup software
Rack / Cabinet	24U steel rack / cabinet with removable door. Cabinet has eight (8) fans for flow-through ventilation.
Keyboard / Mouse / Display	19" LCD rackmount display with integrated keyboard/track pad
Power	1200 watt modular power supply
Warranty and Support	36 months from date of purchase, extended warranty options available, lifetime technical support
Dimensions and Weight	50" High x 24" Wide x 43" Deep, 390 lbs



Shown above: Server-RM™ with 10-port dongle share

Digital Intelligence®

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