

■ ■ ■ **DECRU DATAFORT™ FC1020 SPECIFICATIONS**

**FIRMWARE V2.0**

**SECURITY**

Decru Storage Encryption Processor (SEP) Encryption Operating System	AES-256 (Advanced Encryption Standard with 256-bit keys) Hardened DecruOS
Authentication Administrator Recovery Officers System	Smart cards with login/password Quorum of smart cards (2/3, 3/5, etc.) with login/password System Card smart card
Key Granularity	Keys can be applied per tape pool, per tape (with expiration) and per HBA writing to DataFort
Configurable Security Policy	Wizard-guided installation, with fully customizable security settings

**STORAGE**

Fibre Channel Interfaces Host HBAs Storage HBAs	5 N-port or NL-port (LC connector) 5 N -port or NL-port (LC connector)
Fibre Channel Modes In Line Connected to FC switch	Hosts -> DataFort -> Tape Storage zone, Hosts zone
Performance/Throughput	Supports 2 Gig Fibre Channel for 10 Gigabits per second (Gbps) total throughput (compression and encryption)
Transfers	Full duplex
Class of Services	Class 2, 3
Compression for Tape	Hardware-based. Compresses 2:1 prior to encryption. Compression ratio shown on LCD.

**MANAGEMENT**

Management Interfaces Decru WebUI	Secure SSL-based web interface
Management Station Requirements	Windows-based PC, Minimum 256 MB RAM, 10 MB free disk space, Ethernet 10/100/1000Base-T connection, USB or serial port, Internet Explorer (see specific OS requirements below)
Supported Windows OS	Microsoft Windows NT 4.0 SP6 with IE 5.5; Microsoft Windows 2000 Professional/Server with IE 5.5; Microsoft Windows XP with IE 6.0; Microsoft Windows Server 2003 with IE 6.0
Command Line Interface (CLI) SNMP	SSH-enhanced through smart card-based 2-factor authentication SNMP v1 and v2c, MIB II, Decru MIB
Management Tools Configure Storage Environment	Create and manage Cryptainer® storage vaults. Add, delete, manage hosts
Manage Access Control	Define and control host access to storage
System Configuration	DataFort administration, backup and disaster recovery tools
Logging and Audit	Cryptographically signed tracking for all key events. Configurable audit trail with local and remote (syslog) logging

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**REDUNDANCY AND FAILOVER**

Hardware Redundancy	Hot swappable redundant power supplies Hot swappable fan assemblies
Clustering and Failover	Active-active clustering with secure key sharing (license option) Supports clusters of four FC1020s, or up to eight nodes (for clusters incorporating other DataFort models)

**HARDWARE**

Rack Mountable	Standard 19" EIA rack (2U height)
Size	43.2 cm (17") W x 8.8 cm (3.5") H x 45.6 cm (18") D
Weight	16 kg/35.3 lbs
Universal AC input	100-240 VAC/4A, 47-63 Hz
Rear Ports	10 Fibre Channel Ports (five to hosts, five to storage) 10/100/1000BaseT Ethernet port for configuration Serial console port for initial IP address setting On/Off switch
Front LCD	LCD with touch panel for initial IP configuration and status display
Front LEDs	Power status and network activity indicators
Smart Card Reader	1 internal reader for DataFort System Card 1 USB type external reader (serial type reader optional)
Smart Cards	
System Cards	1 plus 1 backup
Admin/Recovery Card Spares Kit	Optional

**OPTIONS**

Chassis Lock	Pick-resistant high security Medeco lockset
Lifetime Key Management™ system	Software utility to securely automate key archiving and recovery. Includes Software Recovery Tool for data decryption using a standard server.
LKM Server Hardware Requirements	1 GB RAM; 2 GB minimum free disk space; 2.8 GHz processor; available USB port; CD ROM drive; Available server ports; 256kb connection for remote LKM server.
LKM Server Software/OS Requirements	Windows 2000 Server or Windows 2003 Server OS (preferred). A dedicated Windows 2000 or Windows XP workstation is acceptable. Internet Explorer v6.0 or later.

**TESTING AND COMPLIANCE**

<b>Safety</b> Canada                    CSA 60950 United States            UL 60950 Japan                      IEC60950 A4 European Community   EN60950, TUV International            IEC60950	<b>Electromagnetic Compatibility (EMC)</b> Canada                    ICES-003 Class B United States            FCC Class B Japan                      VCCI Class B Korea                     RRL Class B European Community   CE (EN55022 Level B/EN55024) Australia/New Zealand AS/NZS 3548 International            Class B
Operational Vibration   Telecordia GR-65-CORE Shock                     IEC 68-2-29 Transportation Protocol   ISTA 2A Compression Test        ASTM D 642-00 Random Vibration        ASTM D 4728-01 Impact Test              ASTM D 5276-98	<b>Environment</b> Operating Temperature   +5 C to +40 C (41 F to 104 F) Storage Temperature     -10 C to +60 C (14 F to 140 F)