

EMC CLARiiON Disk Library—DL210

Specifications

Disk Library Connectivity

Front-end: Two 200 MB/s FC optical ports
 Back-end (CDL server to EMC[®] CLARiiON[®] disk array): Five or six 200 MB/s FC optical ports
 Tape Ports: One 200 MB/s optical port and one Ultra320 SCSI 320 port
 Note: The optical tape port may be configured, if desired, as a front-end port.

Back-End (Disk) Connectivity

Multiple RAID groups are distributed across redundant loops to maximize bandwidth to disks.

Drive Interface

| | |
|---------------------------------------|-----------------------------|
| | 500 GB ATA |
| Formatted Capacity (520 bytes/sector) | 500 GB |
| Form Factor | 3.5" |
| Height | 1.0" |
| Rotational Speed | 7,200 rpm |
| Interface | Serial ATA |
| Data Buffer | 16 MB |
| Transfer Rates | |
| Buffer to/from Media | 29–64 MB/s |
| SP to/from Buffer | 150 MB/s (max.) |
| Access Time | |
| Average Seek | 8.2 ms Read 9.2 ms Write |
| Rotational Latency | 4.17 ms |

Dimensions (approximate)*

| Model | Height | Width | Depth | Weight |
|------------------------|---------------------|---------------------|----------------------|---------------------|
| DL210 Emulation Engine | 3.83 in. (8.656 cm) | 17.6 in. (44.7 cm) | 29.79 in. (75.68 cm) | 59.0 lb. (26.76 kg) |
| DL210 Storage Arrays | 3.415 in. (8.68 cm) | 17.72 in. (45.0 cm) | 24.5 in. (62.3 cm) | 48 lb. (21.82 kg) |
| Switch | 1.4 in. (3.6 cm) | 9.8 in. (25.0 cm) | 4.6 in. (11.6 cm) | 2.0 lb. (0.9 kg) |
| UPS | 1.72 in. (4.37 cm) | 17.0 in. (43.18 cm) | 26.0 in. (66.04 cm) | 48.0 lb. (21.82 kg) |
| 25U Rack Enclosure | 51.7 in. (131.3 cm) | 23.5 in. (59.69 cm) | 42.20 in. (90.1 cm) | 255 lb. (115.9 kg) |

Power*

| | DL210 Emulation Engine | DL210 Storage Arrays | Switch | UPS | 25U Rack Enclosure |
|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Frequency | 47–63 Hz | 47–63 Hz | 47–63 Hz | 47–63 Hz | 47–63Hz |
| AC Voltage | 100–240 VAC, single phase | 100–240 VAC, single phase | 100–240 VAC, single phase | 160–286 VAC, single phase | 200–240 VAC, single phase |
| Power Factor | .90 | .96 | .60 | .64 | N/A |
| Power Consumption | 255 VA, 229 W | 275 VA, 250 W | 80 VA, 48 W | 60 VA, 38 W | N/A |
| Heat Dissipation | 782 Btu/hour | 850 Btu/hour | 164 Btu/hour | 130 Btu/hour | N/A |

AC Power Capability

25U Cabinet
 Dual Inlets
 NEMA L6-30P or IEC309-332 P6 or IP-57 (Australia)
 200–240 VAC +/- 10%, single phase
 47–63 Hz
 24A, 2-pole circuit breaker



Operating Environment

Temperature: 50–104 degrees F (10–40 degrees C)

Temperature Gradient: 10 degrees C/hr

Relative Humidity: 20% to 80% (non-condensing)

Altitude:

8,000 ft. (2438.4 m) @ 104 degrees F (40 degrees C) max.

10,000 ft. (3048 m) @ 98.6 degrees F (37 degrees C) max.

Standards Certification and Compliance

| EMI Standards | Description |
|---------------------|--|
| FCC Part 15 | Class A, Radio Frequency Device Requirements |
| ICES-003 | Class A, Interference-Causing Equipment Standard – Digital Apparatus |
| VCCI | Class A, Voluntary Control Council for Interference |
| EN55022 & EN55024 | European EMC Directive & Low Voltage Requirements |
| AS/NZS CISPR22 | Class A, Electromagnetic Interference – Limits & Methods of Measurement of ITE |
| CNS13438 | BSMI EMC Requirements |
| Safety Standards | Description |
| CSA-C22.2 No. 60950 | |
| UL 60950 | Safety of Information Technology Equipment including Electrical Business Equipment |
| EN 60950 | Safety of Information Technology Equipment including Electrical Business Equipment |
| IEC 60950 | European EMC Directive & Low Voltage Requirements Directive Requirements |

Quality Standard

Manufactured under an ISO 9000-registered quality system

* The data associated with each CLARiiON Disk Library model in the Dimensions and Power tables includes the Disk Library engine and associated CLARiiON CX array. To determine the correct weight, rack space, power consumption, and heat dissipation, each of those values must be increased based on the number of ATA disk expansion chassis included in the configuration.



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Specification Sheet
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