



# BlackPearl

## Maximize Performance with the Flash-Based F7300

BlackPearl® F-Series deployment appliance delivers scalable, policy-driven object and file storage with robust data protection and maximum flexibility for demanding workflows. Designed for high-availability and cost-effective scalability, the F-Series integrates NVMe acceleration in a compact 2U design, ensuring performance, efficiency, and reliability.

Engineered for simplified management and multi-cloud flexibility, BlackPearl F-Series embodies Spectra's commitment to preserving and optimizing data at scale — empowering organizations to manage and protect their data for the future.



### Data Protection



- Advanced data protection with dual-parity or triple-parity
- Self-encrypting drives for maximum security
- High-availability architecture minimizes downtime and ensures data access

### Manageability



- Policy-based data optimization parameters: locations, redundancy, retention, expiration, movement, and synchronization
- Advanced controls for compliance, governance, and data sovereignty

### Flexibility



- All flash NVMe configurations with available HDD expansion chassis
- Multi-protocol capability (S3, S3 Glacier, CIFS/SMB, and NFS) for file- and object-based storage



## Benefits of the Spectra BlackPearl F7300 Deployment Appliance

- Supports demanding, modern environments and workloads with a compact 2U form factor, NVMe acceleration, and HDD expansion options.
- Reduces operational costs, balances performance and availability, and is highly scalable.
- Seamlessly integrates with cloud and on-premises data flows for fast, flexible, and secure data access.
- Guards against drive failures and maximizes reliability with built-in data protection.
- Configurable for high availability with active-standby and single-active nodes to minimize downtime and maximize efficiency.

# BlackPearl F7300 Technical Specifications

| Item                               | Description                                                                                                                    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Software Options                   | BlackPearl S3<br>BlackPearl Nearline Media Gateway<br>BlackPearl NAS                                                           |
| Form Factor (rack units)           | 2U                                                                                                                             |
| Nodes per F-series Chassis         | 2x nodes configured in active / standby or<br>1x active node                                                                   |
| Availability Options               | Active-standby (dual-node) or Single-active                                                                                    |
| Processor                          | AMD (Genoa) CPU (24 core, 2.9 GHz)                                                                                             |
| RAM                                | 512 GB                                                                                                                         |
| Appliance Capacity                 | Up to 614 TB raw (494 TiB usable without expansion)                                                                            |
| Supported Disk Protection Levels   | ZFS RAID dual-parity or triple-parity                                                                                          |
| SSD                                | 1.6, 6.4, 12.8, 25.6TB NVMe (U.2) drives                                                                                       |
| SSD Drive Count                    | Up to 24x SSD                                                                                                                  |
| Supported Expansion Enclosures     | 78x slot 3.5" HDD Expansion Enclosures                                                                                         |
| Expansion Enclosure Connectivity   | 12 Gb SAS                                                                                                                      |
| Network Connectivity               | Data: 2x 40/100 GbE ports per node (OCP)<br>Out-of-band management: 1x 10 GbE; IPMI: 1x 1 GbE                                  |
| External Tape Library Connectivity | 2x PCIe (Gen5) slots<br>Up to 8x SAS ports (12 Gb or 24 Gb) per node or<br>Up to 8x FC ports (16 Gb or 32 Gb) per node         |
| Power Supplies                     | Dual, redundant 1600W AC Platinum                                                                                              |
| Physical Specifications            | Height: 3.5 in. (8.9 cm)<br>Width: 19 in. (48.3 cm)<br>Depth: 30 in. (76.2 cm)<br>Weight: Max config: 61 lbs. (28kg) (4 stone) |
| Ambient Temperature                | 32°F to 95°F (0°C to 35°C ) (Altitude -200 ft to 10,000 ft)                                                                    |
| Operating Relative Humidity        | 5% to 95% relative humidity non-condensing                                                                                     |
| Thermal rating                     | 1600W PSU: 5460 BTU/hr                                                                                                         |
| Certifications                     | ENERGY STAR 2.0 for Servers                                                                                                    |

## About Spectra Logic Corporation

Spectra Logic modernizes IT infrastructures to preserve, protect and defend data, from days to decades, whether on-premises, in a single cloud, across multiple clouds or in all locations at once. Our cost-effective solutions help organizations efficiently manage, migrate and store long-term data, from terabytes to exabytes, with features that make it ransomware resilient

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