

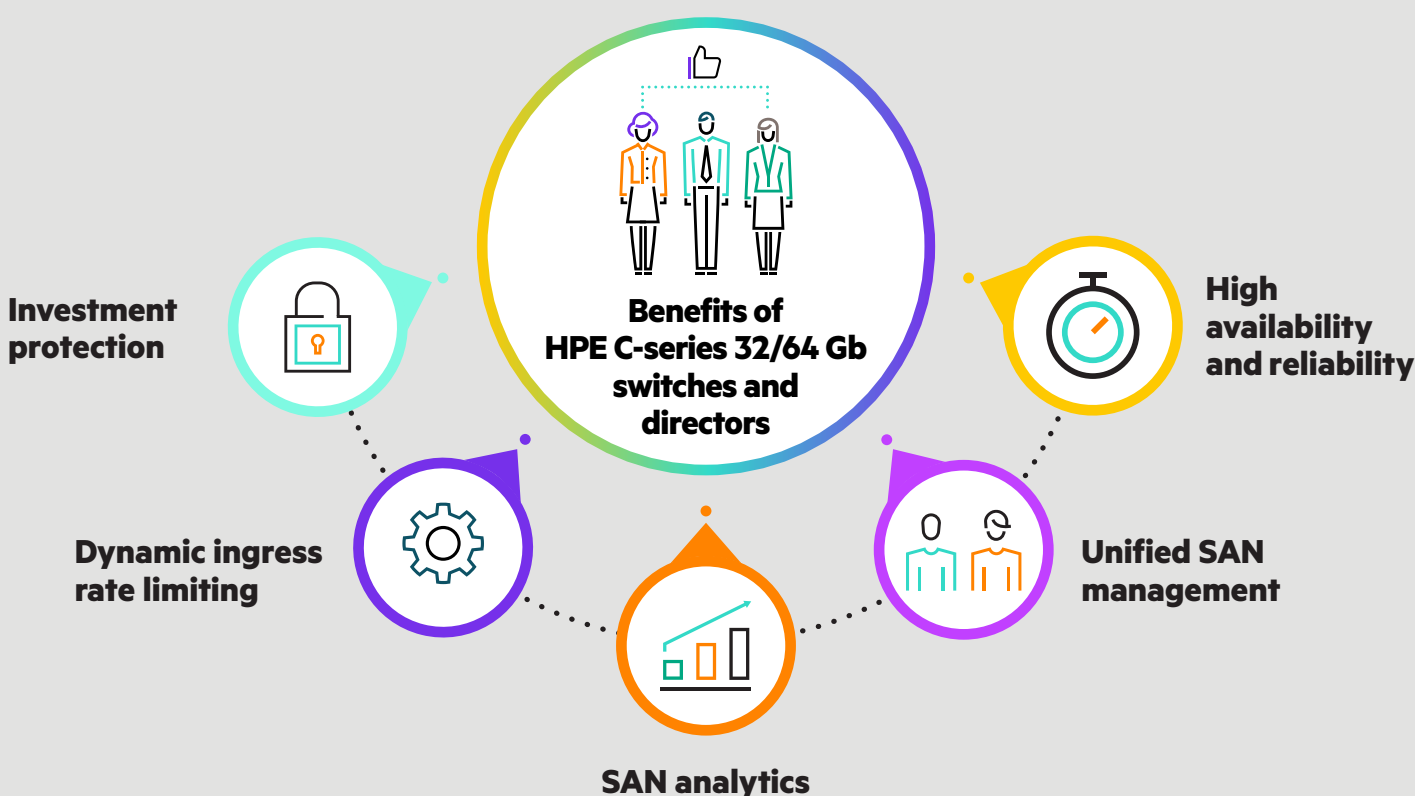
Expand storage networks with HPE C-series switches for next-generation storage

Go faster with HPE C-series 32/64 Gb fabric switches and directors

Are you ready for all-flash and NVMe storage?



Millions of IOPS and response times in nanoseconds are becoming the new standard. One of the most exciting advancements in storage today is NVMe-based storage for AI/ML applications, but is the customer's environment prepared to harness that performance? The HPE C-series family provides next-generation solutions for a high performance, multiprotocol SAN that ensures uncompromising availability, security, scalability, simplified management, and the ability to integrate new technologies without disruption. All HPE C-series switches and directors are NVMe-ready, allowing for a seamless transition to Fibre Channel Non-Volatile Memory Express (FC-NVMe) workloads as they become available. These high-density, highly reliable, and scalable enterprise-class switches are perfect for small, medium, and large SANs.



Unlike other vendors, the HPE Storage Director Switch C-series SN8700C is the only switch in the FC industry that supports speeds from 16 Gb to 64 Gb—all within a single chassis.¹ The C-series SN8700C director features a durable chassis that enables customers to perform in-place online upgrades to the latest Supervisor-4 and Fabric-3 modules. With these modules installed, the director can be upgraded from 16 Gb to 64 Gb line-rate ports without interruptions or downtime.

Dynamic Ingress Rate Limiting (DIRL) is a Cisco proprietary technology that bridges the performance gaps between newer, ultra-fast NVMe arrays and application servers. DIRL prevents congestion caused by performance issues or slow-drain conditions in a SAN from spreading. It allows slower and faster application servers to coexist in the same fabric without influencing one another, enabling them to fully harness the potential of the NVMe arrays. DIRL does not depend on the end devices, requires no additional license, and is available on all HPE C-series switches.



SAN Analytics provides real-time visibility into Fibre Channel storage area network (SAN) traffic by monitoring and analyzing performance metrics, allowing users to identify and troubleshoot issues within the fabric by collecting data directly from the switch ports for further analysis. HPE C-series switches offer state-of-the-art SAN analytics and telemetry capabilities built into the hardware platform. This modern technology performs analytics calculations in real time on the C-series switches, directors and line cards. The telemetry data extracted from inspecting the frame headers is calculated onboard (within the device). Using an industry-leading open format, the telemetry data can be streamed to any analytics visualization platform.

The HPE C-series portfolio features built-in storage network management, with all capabilities accessible through the Cisco Nexus Dashboard (NDFC). This centralized management tool simplifies unified fabric management. Nexus Dashboard also integrates with third-party storage management applications, enabling seamless interaction with existing management tools. Additionally, Nexus Dashboard supports up to 10 federated instances, which can manage up to 200,000 ports in a single management environment pane.



To meet the fundamental requirements of non-disruptive software upgrades and redundancy for all critical hardware components, the HPE C-series software architecture provides exceptional availability. The SN8700C Supervisor-4 module automatically restarts any failed processes, making the directors remarkably robust. In the unlikely event that a supervisor module is reset, full synchronization between the active and standby supervisor modules ensures stateful failover without traffic disruption. Similar options are provided across all HPE C-series switches, and it is the first in the industry² to offer redundancy for all major hardware components.

Storage is experiencing a paradigm shift with NVMe-based deployments, creating a significant opportunity for those looking to revitalize their SAN investments and leverage the latest advancements. HPE C-series NVMe-ready switches and directors provide an ideal mix of high performance, reduced footprint, and easy management, giving users the flexibility they require to expand their storage fabrics to accommodate modern data center environments.


Resources

- [HPE Storage Director Switch C-series SN8700C](#)
- [HPE C-series Reference Guide](#)
- [HPE Storage Fibre Channel Switch C-Series SN6710C](#)
- [HPE Storage Fibre Channel Switch C-series SN6610C](#)
- [HPE Storage Fibre Channel Switch C-Series SN6720C](#)
- [HPE Storage Fibre Channel Switch C-series SN6620C](#)
- [HPE Storage Fibre Channel Switch C-Series SN6730C](#)
- [HPE Storage Fibre Channel Switch C-series SN6630C](#)

¹ hpe.com/psnow/doc/a00094634enw?from=app§ion=search&isFutureVersion=true

² cisco.com/c/en/us/products/storage-networking/mds-9700-series-multilayer-directors/index.html

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