



HS43200  
HS34008  
HS24008

# HyperSwitch™ Networking Switch

SoftIron's wire-speed network switch.  
Purpose-built for hyperscale,  
enterprise storage.



# Slightly controversial. Quietly confident.

SoftIron® creates the world's best appliances for scale-out data center solutions, delivering industry-leading performance on all critical metrics including density, efficiency, capacity, speed and heat emission.

## Choose SoftIron for:

### Superior, task-specific appliances

- » We do not optimize commodity hardware or configure the cheapest components.
- » They're purpose-built to optimize their specific role in the data center.



### High Performance

- » Specialization fosters performance breakthroughs.
- » Task-specific design reveals opportunities for improvement at a granular level.



### Secure Provenance

- » SoftIron not only controls the entire design and build process, but manufactures and assembles all products in-house.
- » The result is auditable provenance on all of our data center appliance and SoftIron is the only manufacturer to offer it.



# HyperSwitch™ Networking Switch

SoftIron's HyperSwitch is our custom-designed network switch, purpose-built to enable lightning fast, wire-speed connectivity for hyperscale-grade data centers.

In such a data-dependant era, storage and compute requirements within the enterprise continue to scale exponentially, creating unprecedented demand for total data center solutions that not only keep up, but deliver competitive advantage. No matter the performance grade of your compute and storage architecture, your system will only ever be as fast – or reliable – as your network.

The days of expensive, over-complicated commodity networking equipment are over, it takes more than generic hardware to get outstanding performance for storage. Because HyperSwitch is custom built to support HyperDrive, our custom Ceph appliance, all components integrate with – and exploit – Ceph's outstanding functionality. The result is a scale-out storage network solution that runs at wire-speed.

**WIRESPEED ON  
ALL PORTS AT ALL  
TIMES WITH  
UNCOMPROMISING  
PERFORMANCE**

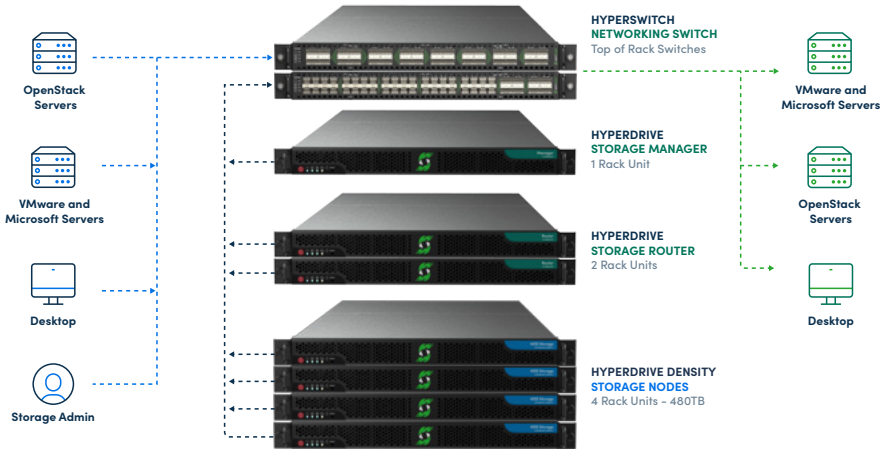
**SIMPLIFIED,  
CORE NETWORKING  
FUNCTIONALITY**

**OPTIMIZED FOR  
HYPERSCALE  
DATA CENTER  
PERFORMANCE  
(1GbE–100GbE)**



HyperSwitch™

# HyperSwitch™ Deployment Example



## With HyperSwitch™ Networking Switch you can easily and confidently:

- ✓ Simplify and centralize the management of HyperSwitch.
- ✓ Update, monitor, maintain and upgrade HyperSwitch nodes.
- ✓ Gain visibility into storage health and current utilization.
- ✓ Enable wirespeed performance on all ports, at all times, with hardware based ethernet switching, IP routing and security enforcement.
- ✓ Deploy with SoftIron storage and common virtualization such as Kubernetes, VMware and OpenStack.
- ✓ Simplify connectivity to Public Clouds, Private Clouds, Multiple Data Centers, all natively – without the need for any 3rd party connectivity solutions.
- ✓ Reduce your TCO with reduced strain on data center cooling.
- ✓ Centralize your storage and use HyperSwitch to provide high performance connectivity to all of your servers, hypervisors, and containers.
- ✓ Integrate into existing platform management solutions.
- ✓ Provide full connectivity to every port, including balancing uplinks to be able to support all ports simultaneously.

# Purpose-built solutions for the hyperscale enterprise data center.

## Storage Hardware

- » Task-specific, scale-out ready
- » Wire speed throughput performance front-side and back-side networking
- » Solid state disks for journal
- » Preconfigured and tuned for balanced read and write performance
- » Low wattage power design

## Ceph

- » Compatible with clusters running Ceph
- » Interfaces for file, block, and object storage
- » Support for OpenStack, Kubernetes, VMware, and HyperV
- » Interfaces for file, block, and object storage

## Storage Management

- » Configurable cluster-level resiliency
- » Health monitoring
- » Full hardware configuration and management
- » Workflow-based Ceph management

## Networking

- » Wire speed on all ports at all times
- » Simplified, core networking functionality
- » Optimized for hyperscale data center performance (1GbE-100GbE)



## Take HyperDrive<sup>®</sup> for a Test Drive

Try out a HyperDrive storage cluster in your environment for 90 days – no long term commitment necessary.

[softiron.com/testdrive](https://softiron.com/testdrive)

# Product Specifications

Model	HS43200	HS34008	HS24008
Model Type	HyperSwitch	HyperSwitch	HyperSwitch
Networking	32x 100GbE	40x 25GbE + 8x 100GbE	40x 10GbE + 8x 100GbE
Management	1x 1GbE, IPMI, HyperDrive Manager	1x 1GbE, IPMI, HyperDrive Manager	1x 1GbE, IPMI, HyperDrive Manager
Power Supply	Redundancy Power (Dual Supplies) 120–240V, 50–60Hz	Redundancy Power (Dual Supplies) 120–240V, 50–60Hz	Redundancy Power (Dual Supplies) 120–240V, 50–60Hz
Power Consumption	< 150W	< 150W	< 150W
Dimensions	H 43 mm / 1.7 in W 426 mm / 16.8 in L 635 mm / 25 in	H 43 mm / 1.7 in W 426 mm / 16.8 in L 635 mm / 25 in	H 43 mm / 1.7 in W 426 mm / 16.8 in L 635 mm / 25 in
Weight	14.1 kg / 31 lb	14.1 kg / 31 lb	14.1 kg / 31 lb
Switch Fabric Speed	1.8Tbps	1.8Tbps	1.8Tbps
Uplinks	Bonded spline ports	Dedicated 8x 100GbE	Dedicated 8x 100GbE