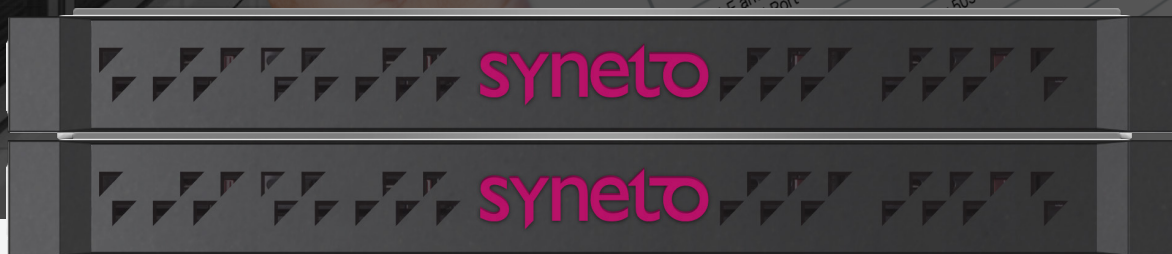




DATASHEET

HYPERSeries 2000



The HYPERSeries 2000 is a hyperconverged, hybrid, IT infrastructure product with built-in Disaster Recovery capabilities with a workload of up to 7 VMs. The product has two components:



1. The primary production appliance

This is a 1U appliance where the applications, services and local backups run under normal circumstances.



2. The secondary DR appliance

This is a 1U appliance where the data can be retrieved from or applications restarted in case of a disaster.

1. Primary production unit

Model	<div>HYPERSeries 2100</div> <div></div>
Compute options	Single Intel Xeon - Broadwell CPU: 1. E5-2620V4 [8 cores @ 2.1 GHz]
Workload ¹	1. E5-2620V4: 4 large or 7 medium or 15 small VMs
Capacity options ²	Hybrid 8 TB effective ³ (4 TB net)
Capacity expansion	Not available (expansion options are only available on HYPER 3000)
Memory ⁴	48GB (usable by VMs)
DRAM data cache ⁵	12GB (high speed data read)
Read cache	Not available (dedicated SSD read cache is only available on HYPER 3000)
Write acceleration	2 x 20GB SSD (write-intensive)
Chassis	1U rack-mountable, 4 bays (hot-swap) + 2 OS disks
Network connectivity	4 x 1GbE and 1 x 1GbE RJ45 (IPMI) Add-on: Dual-Port 10 GbE, SFP+ or BASE-T (RJ45)
Power	2 x 400 W Redundant
Dimensions	Height: 43 mm, Width: 437 mm Depth: 503 mm
Weight	15.2 kg (33.5 lbs)
AC input	100-240 V, 50-60 Hz, 3 Amp
Cooling	1500 BTU/hour (maximum)
Temperature	5°C to 35°C (50°F to 95°F)
Humidity	8% to 90% (non-condensing)

^{1,2,3,4} You can find more information and explanations on the "Definitions" page of this document.

2. Secondary disaster recovery unit

Model	HYPERSeries 2100 
Compute options	Single Intel Xeon - Broadwell CPU: 1. E5-2620V4 [8 cores @ 2.1 GHz]
Workload ¹	1. E5-2620V4: 4 large or 7 medium or 15 small VMs
Capacity options	Hybrid 8 TB effective ² (4 TB net)
Capacity expansion	Not available (expansion options only available on HYPER 3000)
Memory ³	48GB (usable by VMs)
DRAM data cache ⁴	12GB (high speed data read)
Read cache	Not available (dedicate SSD read cache only available on HYPER 3000)
Write acceleration	2 x 20GB SSD (write-intensive)
Chassis	1U rack-mountable, 4 bays (hot-swap) + 2 OS disks
Network connectivity	4 x 1GbE and 1 x 1GbE RJ45 (IPMI) Add-on: Dual-Port 10 GbE, SFP+ or BASE-T (RJ45)
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¹ **Workload calculations** in the table above are created according to the industry standard (e.g VMware, Openstack) virtual machine sizing options and best practices. They reflect a global average utilisation for VM compute, storage and memory.

<u>Small Virtual Machines</u>	<u>Medium Virtual Machines</u>	<u>Large Virtual Machines</u>
- CPU: 466 MHz	- CPU: 933 MHz	- CPU: 1866 MHz
- No. of vCPUs: 1	- No. of vCPUs: 2	- No. of vCPUs: 4
- RAM: 2GB	- RAM: 4GB	- RAM: 8GB
- Capacity: 50GB	- Capacity: 105GB	- Capacity: 150GB

² **Effective capacity** across both primary and DR units is calculated by including space saving mechanisms like compression and incremental snapshots. The effective capacities are calculated using an **efficiency rate of 2x** (average for 95% of deployments).

Effective capacity may vary according to the type of data/workload, from low space savings on incompressible workloads/data (e.g: images, videos) to high savings on compressible workloads (e.g: text files, VDI workloads, etc).

³ **Memory usable** represents the estimated RAM available to virtual applications.

⁴ **DRAM data cache** represents the overall DRAM memory available to cache frequently and most recently used data to provide fast access. This can be compared the traditional the 4/8GB cache.