






# Dell ObjectScale

Dell ObjectScale is an enterprise-grade, cloud-scale object storage platform. With ObjectScale, any organization can deliver scalable public cloud services with the reliability and control of a private-cloud infrastructure. ObjectScale provides S3 and multiprotocol support for object workloads and enables organizations to easily manage globally distributed storage infrastructure under a single global namespace with anywhere access to content. ObjectScale features fully-integrated turnkey appliance options that bundle software and Dell PowerEdge servers into an easily deployed object system.

ObjectScale is currently in its fourth generation of hardware appliances, the X-Series, building on the legacy of the EMC Centera, Atmos and ECS object storage platforms that predated ObjectScale. The X-Series currently is comprised of the X560 and XF960 appliances and the EX-Series is comprised of one additional product carrying the ECS brand, EX5000.

ObjectScale X560	ObjectScale XF960	ECS EX5000
		
<p>The X560 is a modern, general-purpose HDD platform. It offers the perfect blend of economy and density for AI data lake storage, featuring hardware innovations based on PowerEdge R760xd2.</p> <p>Rack capacity ranges from 60TB to 9.22PB.</p>	<p>The XF960 is the next leap in all-flash object storage for enterprises looking to super-charge their AI insights and innovations. XF960 delivers extreme scale, speed and resiliency through extensive hardware advances based on PowerEdge R760xd.</p> <p>Rack capacity ranges from 230.4TB to 23.59PB.</p>	<p>A high density, hot disk-swappable, object storage system, the EX5000 packs up to 16.8PB per rack and can grow into exabyte-scale with ease.</p> <p>It's an ideal platform for long-term retention, storage consolidation and multi-purpose object storage requirements including S3 and archive workloads.</p>

Features	ObjectScale X560	ObjectScale XF960	ECS EX5000
<b>Node architecture</b>	<ul style="list-style-type: none"> <li>Intel x86 servers</li> <li>Integrated storage</li> <li>6, 12 or 24 disk drives per node</li> </ul>	<ul style="list-style-type: none"> <li>Intel x86 servers</li> <li>Integrated storage</li> <li>6, 12 or 24 disk drives per node</li> </ul>	<ul style="list-style-type: none"> <li>Intel x86 servers</li> <li>Integrated storage</li> <li>Up to 100 disk drives per node</li> </ul>
<b>Network connectivity</b>	<ul style="list-style-type: none"> <li>25GbE FrontEnd</li> <li>25GbE BackEnd</li> </ul>	<ul style="list-style-type: none"> <li>100GbE or 25GbE* FrontEnd</li> <li>100GbE BackEnd</li> </ul> <p><i>*Supported when customer-provided (requires 25GbE switch and adapter)</i></p>	<ul style="list-style-type: none"> <li>25GbE FrontEnd</li> <li>25GbE BackEnd</li> </ul>
<b>Rack configurations</b>	<ul style="list-style-type: none"> <li>1, through 16 node configurations (5 node minimum initial rack)</li> <li>HA power</li> </ul>	<ul style="list-style-type: none"> <li>1, through 16 node configurations (5 node minimum initial rack)</li> <li>HA power</li> </ul>	<ul style="list-style-type: none"> <li>EX5000S: 1, through 7 node configurations (5 node minimum initial rack)</li> <li>EX5000D: 2, through 14 node configurations (8 node minimum initial rack)</li> <li>HA power</li> </ul>
<b>Storage configurations</b>	<ul style="list-style-type: none"> <li>Unstructured storage up to 9216TB per rack</li> </ul>	<ul style="list-style-type: none"> <li>Unstructured storage up to 23,592TB TB per rack</li> </ul>	<ul style="list-style-type: none"> <li>Unstructured storage up to 16,800TB per rack</li> </ul>
<b>Architecture</b>	<ul style="list-style-type: none"> <li>Titan S standard 42U cabinet</li> <li>2U node containing server and disks</li> <li>Fully accessible – field serviceable</li> <li>Conventional front to back cooling</li> <li>HA power cabling and cooling</li> </ul>	<ul style="list-style-type: none"> <li>Titan S standard 42U cabinet*</li> <li>2U node containing server and disks</li> <li>Fully accessible – field serviceable components</li> <li>Conventional front to back cooling</li> <li>HA power cabling and cooling</li> </ul> <p><i>*Rack is optional and shipped separately from nodes. Rack integration performed at customer site.</i></p>	<ul style="list-style-type: none"> <li>Titan S standard 42U cabinet</li> <li>EX5000S: 5U chassis containing server and disks</li> <li>EX5000D: 5U chassis containing server and disks</li> <li>Fully accessible – field serviceable components</li> <li>Conventional front to back cooling</li> <li>HA power cabling and cooling</li> </ul>
<b>Min / max cluster size</b>	<ul style="list-style-type: none"> <li>5 node minimum (with 12+4 erasure coding)</li> <li>No maximum</li> </ul>	<ul style="list-style-type: none"> <li>5 node minimum</li> <li>Maximum:64 nodes</li> </ul>	<p>Single:</p> <ul style="list-style-type: none"> <li>5 node minimum</li> <li>No maximum</li> </ul> <p>Dual:</p> <ul style="list-style-type: none"> <li>8 node minimum</li> <li>No maximum</li> </ul>
<b>Min / max rack configuration</b>	<ul style="list-style-type: none"> <li>Min: 1 node = 1 server with included disks</li> <li>Max: 16 nodes = 16 servers with included disks</li> </ul>	<ul style="list-style-type: none"> <li>Min: 1 node = 1 server with included disks</li> <li>Max: 16 nodes = 16 servers with included disks</li> </ul>	<p>Single:</p> <ul style="list-style-type: none"> <li>Min: 1 chassis = 1 server with included disks</li> <li>Max: 7 chassis = 7 servers with included disks</li> </ul> <p>Dual:</p> <ul style="list-style-type: none"> <li>Min: 1 chassis = 2 server with included disks</li> <li>Max: 7 chassis = 14 servers with included disks (14 nodes per 42U rack)</li> </ul>
<b>Node:disk ratios</b>	1:6, 1:12, 1:24	1:6, 1:12, 1:24	EX5000S: 1:25, 1:50, 1:75, 1:100 EX5000D: 1:25, 1:50
<b>Disk type (7200rpm, SATA)</b>	2TB, 4TB, 8TB, 16TB, 20TB, 24TB	7.68TB TLC, 15.36TB FIPS SED TLC, 30.72TB QLC, 61.44TB QLC	16TB, 20TB, 24TB
<b>Memory</b>	256GB	256GB	192GB
<b>Cache SSD</b> for improved metadata read/write cache performance	1.6TB drive (included)	N/A	960GB drive (included)

Features	ObjectScale X560	ObjectScale XF960	ECS EX5000
<b>Raw capacity (per node with full complement of disks)</b>	48TB, 96TB, 192TB, 384TB, 480TB, 576TB	184TB, 369TB, 737TB, 1475TB	1600TB, 2000TB, 2400TB
<b>Max raw capacity (per rack)</b>	Up to 9,216TB	Up to 23,593TB	Up to 16,800TB
<b>Node dimensions</b>	<ul style="list-style-type: none"> <li>2U x D (837 mm)</li> <li>Weight (maximum): 40.18 kg/88.6 lb with 24 drives</li> </ul>	<ul style="list-style-type: none"> <li>2U x D (736mm / 28.98 inches)</li> <li>Weight (maximum):: 36.1kg/79.58lbs with 24 drives</li> </ul>	<ul style="list-style-type: none"> <li>5U x D (970.4 mm) with CMA</li> <li>Weight (maximum): 125kg/276lb</li> </ul>
<b>Rack dimensions</b>	<ul style="list-style-type: none"> <li>H(78.4") x W(23.6") x D(47.2") – including the front door</li> <li>Weight: 1076kg/2372lb with 4 switches, 16 2U nodes</li> </ul>	<ul style="list-style-type: none"> <li>H(78.4") x W(23.6") x D(47.2") – including the front door</li> <li>Weight: 852kg/1877lb with 4 switches, 16 2U nodes</li> </ul>	<ul style="list-style-type: none"> <li>H(78.4") x W(23.6") x D(47.2") – including the front door</li> <li>Weight: 1179kg/2600lb with 4 switches, 7 5U nodes</li> </ul>
<b>Max power</b>	.7043 kVA per 2U node with 24 drives	1.136kVA per 2U node	2.4 kVA per 5U chassis
<b>Max heatload</b>	5250 BTU/hr for every 2U node	3878 BTU/Hr for every 2U node	8344 BTU/Hr for every 5U chassis
<b>Power specifications (server)</b>	2X1400W power supplies per node (HA)	2X1400W power supplies per node (HA)	2X2400W power supplies per node (HA)
<b>Power specifications (rack)</b>	<ul style="list-style-type: none"> <li>Connection: 6 single phase L6-30 (redundant power) <ul style="list-style-type: none"> <li>30A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>2 three-phase WYE S52.30 (redundant power) <ul style="list-style-type: none"> <li>32A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>2 three-phase delta CS-8365C (redundant power) <ul style="list-style-type: none"> <li>50A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>Input voltage (VAC): 200-240</li> <li>Frequency (Hz): 50 - 60</li> </ul>	<ul style="list-style-type: none"> <li>Connection: 6 single phase L6-30 (redundant power) <ul style="list-style-type: none"> <li>30A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>2 three-phase WYE S52.30 (redundant power) <ul style="list-style-type: none"> <li>32A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>2 three-phase delta CS-8365C (redundant power) <ul style="list-style-type: none"> <li>50A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>Input voltage (VAC): 200-240</li> <li>Frequency (Hz): 50 - 60</li> </ul>	<ul style="list-style-type: none"> <li>Connection: 8 single phase L6-30 (redundant power) <ul style="list-style-type: none"> <li>30A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>4 three-phase WYE S52.30 (redundant power) <ul style="list-style-type: none"> <li>32A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>4 three-phase delta CS-8365C (redundant power) <ul style="list-style-type: none"> <li>50A circuit breaker (A) max. per AC power source</li> </ul> </li> <li>Input voltage (VAC): 200-240</li> <li>Frequency (Hz): 50 – 60</li> </ul>
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>Network: dual 25 GbE front end switches and dual 25 GbE back end switches (internal traffic) per rack</li> </ul>	<ul style="list-style-type: none"> <li>Network: dual 100 GbE front end switches and dual 100 GbE back end switches (internal traffic) per rack</li> </ul>	<ul style="list-style-type: none"> <li>Network: dual 25 GbE front end switches and dual 25 GbE back end switches (internal traffic) per rack</li> </ul>
	Uplink connectivity: up to 16x10 GbE, 16x25 GbE, 8x40GbE or 8x100GbE uplinks to customer network (800 Gb/s maximum bandwidth), including high availability configuration		
<b>Backend aggregation switches</b>	N/A	Yes	N/A
<b>Environmental specifications</b>	<ul style="list-style-type: none"> <li>Operating temperature (°F/°C): 41 - 86/ 5 - 30</li> <li>Max. altitude: 7,500 ft/ 2,286 m @ 86°F/30°C</li> <li>Relative humidity: 20 - 80% non-condensing</li> <li>Raised floor: not required</li> </ul>	<ul style="list-style-type: none"> <li>Operating temperature (°F/°C): 41 - 90/ 5 - 32</li> <li>Max. altitude: 7,500 ft/ 2,286 m @ 90°F/32°C</li> <li>Relative humidity: 20 - 80% non-condensing</li> <li>Raised floor: not required</li> </ul>	<ul style="list-style-type: none"> <li>Operating temperature (°F/°C): 41 - 90/ 5 - 32</li> <li>Max. altitude: 7,500 ft/ 2,286 m @ 90°F/32°C</li> <li>Relative humidity: 20 - 80% non-condensing</li> <li>Raised floor: not required</li> </ul>
<b>Upgrade options</b>	<ul style="list-style-type: none"> <li>Scale out by additional nodes</li> <li>6 drive capacity upgrade kit</li> </ul>	<ul style="list-style-type: none"> <li>Scale out by additional nodes</li> <li>6 and 12 drive capacity upgrade kits</li> </ul>	<ul style="list-style-type: none"> <li>Scale out by additional nodes</li> <li>25 drive capacity upgrade kit</li> </ul>



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