

Technical Specifications



Dell ObjectScale



EX-Series Appliances I X-Series Appliances

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 appliance and the EX-Series is comprised of three additional hardware products carrying the ECS brand: EX500, EX5000 and the all-flash EXF900.

ObjectScale X560	ECS EX500	ECS EX5000	ECS EXF900
The X560 is the first object storage appliance in Dell's next-generation X-series. This modern, general-purpose HDD platform offers the perfect blend of economy and density for Al data lake storage, featuring hardware innovations based on PowerEdge R760XD2. Rack capacity ranges from 60TB to 9.22PB.	The EX500 is a versatile HDD option for midsized enterprises looking to support either modern application or deep archive use cases. It's the ideal sandbox for inhouse, cloud-native, mobile and web application storage. Rack capacity ranges from 120TB to 7.68PB.	A high density, hot disk- swappable, object storage system, the EX5000 packs up to 14.0PB per rack and can grow into exabyte-scale with ease. It's an ideal platform for long-term retention, storage consolidation and multi- purpose object storage requirements including S3 and archive workloads.	Built with NVMe-based SSDs on Dell PowerEdge servers, the EXF900 appliance delivers extreme performance at scale for modern workloads such as AI, machine learning and real-time analytics applications. Capacity begins at 230TB and scales up to 23.59PB per rack.

Features	ObjectScale X560	ECS EX500	ECS EX5000	ECS EXF900
Node architecture	 Intel x86 servers Integrated storage 6, 12 or 24 disk drives per node 	Intel x86 serversIntegrated storage12 or 24 disk drives per node	Intel x86 serversIntegrated storageUp to 100 disk drives per node	Intel x86 serversIntegrated storage12 or 24 disk drives per node
Network connectivity	25GbE FrontEnd25GbE BackEnd	25GbE FrontEnd25GbE BackEnd	25GbE FrontEnd25GbE BackEnd	25GbE FrontEnd25GbE BackEnd
Rack configurations	 1, through 16 node configurations (5 node minimum initial rack) HA power 	 1, through 16 node configurations (5 node minimum initial rack) HA power 	 EX5000S: 1, through 7 node configurations (5 node minimum initial rack) EX5000D: 2, through 14 node configurations (8 node minimum initial rack) HA power 	 1, through 16 node configurations (5 node minimum initial rack) HA power
Storage configurations	 Unstructured storage up to 9216TB per rack 	 Unstructured storage up to 7680TB per rack 	 Unstructured storage up to 14,000TB per rack 	 Unstructured storage up to 23,593TB per rack
Architecture	 Titan S standard 42U cabinet 2U node containing server and disks Fully accessible – field serviceable Conventional front to back cooling HA power cabling and cooling 	 Standard 40U cabinet 2U node containing server and disks Fully accessible – field serviceable Conventional front to back cooling HA power cabling and cooling 	 Titan S standard 42U cabinet EX5000S: 5U chassis containing server and disks EX5000D: 5U chassis containing server and disks Fully accessible – field serviceable components Conventional front to back cooling HA power cabling and cooling 	 Standard 40U cabinet 2U node containing server and disks Fully accessible – field serviceable Conventional front to back cooling HA power cabling and cooling
Min / max cluster size	5 node minimumNo maximum	5 node minimumNo maximum	Single: 5 node minimum No maximum Dual: 8 node minimum No maximum	5 node minimumMaximum:112 nodes
Min / max rack configuration	 Min: 1 node = 1 server with included disks Max: 16 nodes = 16 servers with included disks 	 Min: 1 node = 1 server with included disks Max: 16 nodes = 16 servers with included disks 	Single: Min: 1 chassis = 1 server with included disks Max: 7 chassis = 7 servers with included disks Dual: Min: 1 chassis = 1 server with included disks Max: 7 chassis = 7 servers with included disks Max: 7 chassis = 7 servers with included disks (14 nodes per 42U rack)	 Min: 1 node = 1 server with included disks Max: 16 nodes = 16 servers with included disks

Features	ObjectScale X560	ECS EX500	ECS EX5000	ECS EXF900
Node:disk ratios	1:6, 1:12, 1:24	1:12, 1:24	EX5000S: 1:25, 1:50, 1:75, 1:100 EX5000D: 1:25, 1:50	1:12, 1:24
Disk type (7200rpm, SATA)	2TB, 4TB, 8TB, 16TB, 20TB, 24TB	2TB, 4TB, 8TB, 12TB, 16TB, 20TB	16TB, 20TB	3.84TB, 7.68TB. 15.36TB, 61.44TB (RI NVMe U.2 SSD)
Memory	256GB	64GB / 192GB	192GB	192GB
Cache SSD for improved metadata read/write cache performance	1.6TB drive (included)	960GB drive (optional)	960GB drive (included)	N/A
Raw capacity (per node)	48TB, 96TB, 192TB, 384TB, 480TB, 576TB	48TB, 96TB, 192TB, 288TB, 384TB, 480TB	1600TB, 2000TB	46TB / 92TB / 184TB / 368TB / 1475TB
Max raw capacity (per rack)	Up to 9216TB	Up to 7680TB	Up to 14,000TB	Up to 23,593TB
Node dimensions	 2U x D (837 mm) Weight (maximum): 40.18 kg/88.6 lb with 24 drives 	2U x D (810 mm)Weight (maximum): 43.2kg/95.2lb with 24 drives	 5U x D (970.4 mm) with CMA Weight (maximum): 125kg/276lb 	 2U x D (715.5 mm) Weight (maxiumum): 21.8kg/48 lb (with 12 drives); 23.8kg/52.5 lb (with 24 drives)
Rack dimensions	 H(78.4") x W(23.6") x D(47.2") – including the front door Weight: 1076kg/2372lb with 4 switches, 16 2U nodes 	 H(75") x W(24") x D(47") + 4" for front door H(1905mm) x W(610mm) x D(1194mm) Weight: 887kg/1955lb with 4 switches, 16 2U nodes 	 H(78.4") x W(23.6") x D(47.2") – including the front door Weight: 1179kg/2600lb with 4 switches, 7 5U nodes 	 H(75") x W(24") x D(47") + 4" for front door H(1905mm) x W(610mm) x D(1194mm) Weight: 887kg/1955lb with 4 switches, 16 2U nodes
Max power	.7043 kVA per 2U node with 24 drives	.72 kVA per 2U node	2.4 kVA per 5U chassis	1.086 kVA per 2U node
Max heatload	5250 BTU/hr for every 2U node	2400 BTU/Hr for every 2U node	8344 BTU/Hr for every 5U chassis	3706 BTU/Hr for every 2U node
Power specifications (server)	2X1400W power supplies per node (HA)	2X1100W power supplies per node (HA)	2X2400W power supplies per node (HA)	 2X1100W power supplies per node (HA) 2X1600W power supplies per node
Power specifications (rack)	■ Connection: 6 single phase L6-30 (redundant power) ■ 30A circuit breaker (A) max. per AC power source ■ 2 three-phase WYE S52.30 (redundant power) ■ 32A circuit breaker (A) max. per AC power source ■ 2 three-phase delta CS-8365C (redundant power) ■ 50A circuit breaker (A) max. per AC power source ■ Input voltage (VAC): 200-240 ■ Frequency (Hz): 50 - 60	 Connection: 4 single phase L6-30 (redundant power) 30A circuit breaker (A) max. per AC power source 2 three-phase WYE S52.30 (redundant power) 32A circuit breaker (A) max. per AC power source 2 three-phase delta CS-8365C (redundant power) 50A circuit breaker (A) max. per AC power source Input voltage (VAC): 200-240 Frequency (Hz): 50 -60 	 Connection: 8 single phase L6-30 (redundant power) 30A circuit breaker (A) max. per AC power source 4 three-phase WYE S52.30 (redundant power) 32A circuit breaker (A) max. per AC power source 4 three-phase delta CS-8365C (redundant power) 50A circuit breaker (A) max. per AC power source Input voltage (VAC): 200-240 Frequency (Hz): 50 – 60 	L6-30 (redundant power) 30A circuit breaker (A) max. per AC power source

Features	ObjectScale X560	ECS EX500	ECS EX5000	ECS EXF900
Connectivity	maximum bandwidth),	including high availability co	8x40GbE or 8x100GbE uplinks to nfiguration 25 GbE back end switches (inter	`
Backend aggregation switches	N/A	N/A	N/A	Yes
Environmental specifications		Max. altitude: 7	perature (°F/°C): 41 - 90/ 5 - 32 7,500 ft/ 2,286 m @ 90°F/32°C ity: 20 - 80% non-condensing ot required	
Upgrade options	Scale out by additional nodes6 drive capacity upgrade kit	Scale out by additional nodes12 drive capacity upgrade kit	Scale out by additional nodes25 drive capacity upgrade kit	 Scale out by additional nodes 12 drive capacity upgrade kit



Learn more about Dell ObjectScale solutions



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