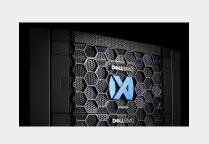
D¢LLTechnologies

SPECIFICATION SHEET



XTREMIO X2
SPECIFICATIONS

Specifications below supported starting with version 6.3

















System Specifications	1 Brick Cluster	2 Bricks Cluster	3 Bricks Cluster	4 Bricks Cluster
Active-Active Controllers	2	4	6	8
SSD enclosures	1	2	3	4
Number of SSDs (2TB Drives)	18-72 ¹	36-144	54-216	72-288
Number of SSDs ² (4TB Drives)	18-60	36-120	54-180	72-240
Cable mgmt. ducts ³	1	1	2	2
InfiniBand Switches	0	2	2	2
Power Socket Number/Type (internal to rack)	6 x IEC C14	16 x IEC C14	22 x IEC C14	28 x IEC C14
Weight ⁴ (including rack)	293Kg/646lb	400Kg/882lb	490Kg/1080lb	580Kg/1278lb
Weight ⁴ (excluding rack)	95Kg/209lb	202Kg/445lb	292Kg/644lb	382Kg/842lb
Rack Space (incl. CMD)	5U	11U	16U	20U

¹X2-T can support up to 36 SSDs

4 These are X2-R values. For X2-S multi-brick weight subtract 16Kg (single bricks weigh the same)

³ CMD - Cable Management Duct. optional.

² 4TB drives are supported in X2-R SSD enclosures, up to 60 X 4TB SSDs per enclosure

Performance (100% random IOs, no caching, on preconditioned & prefilled arrays)	1 Brick Cluster	2 Bricks Cluster	3 Bricks Cluster	4 Bricks Cluster
IOPS 100% read (8K blocks)	430,000	860,000	1,290,000	1,720,000
IOPS 70% read, 30% write (8K blocks)	220,000	440,000	660,000	880,000
Average Latency (ms)	0.5	0.5	0.5	0.5
Max. Bandwidth (GB/s)	6	12	18	24

Host Connectivity (Default/iSCSI only config ⁵)	1 Brick Cluster	2 Bricks Cluster	3 Bricks Cluster	4 Bricks Cluster
Fibre Channel Ports (16Gbps)	4	8	12	16
iSCSI Ethernet Ports (10Gbps)	4-8	8-16	12-24	16-32

Management	1 Brick Cluster	2 Bricks Cluster	3 Bricks Cluster	4 Bricks Cluster	
Ethernet Ports (10Gbps)	2	2	2	2	
Management IP Addresses Required	2+1 (XMS)	2+1 (XMS)	2+1 (XMS)	2+1 (XMS)	
XMS Management Server A single XMS (physical server or VM) manages multiple XtremIO arrays, requires IP address					

⁵ Cluster can be configured to have only iSCSI connections and no FC connections

	2TB drives	X2-T		X2-R							
		X2-T Single Brick				2 Bricks Cluster		3 Bricks Cluster		4 Bricks Cluster	
	Raw Capacity	TB: 34.6	69.1	TB:34.6	138.2	TB:69.1	276.5	TB:103.7	414.7	TB:138.2	553.0
	Naw Capacity	TiB: 31.4	62.9	TiB:31.4	125.7	TiB:62.9	251.5	TiB:94.3	377.2	TiB:125.7	502.9
	Usable Capacity ⁶	TB:27.9	61.5	TB:27.9	123.7	TB:55.8	247.4	TB:83.7	371.1	TB:111.6	494.8
	Оѕаые Сараску	TiB:25.4	56.2	TiB:25.4	112.5	TiB:50.8	225	TiB:76.2	337.5	TiB:101.6	450
	Effective Capacity ⁷ [TB]	369		738	3	147	6	221	4	2958	3
	Power Consumption (steady state) [VA]	1400-15	550	1400-1	700	3000-3	510	4420-5	5200	5850-69	900
	Cooling Requirements [BTU/Hr]	4,800-5,	300	4,800-5	,800	10,240-1	2,000	15,090-1	7,750	20,000-23	3,550
	CPU	Haswell, dua (48 core		Haswell, dual socket (48 cores)		Haswell, dual socket (96 cores)		Haswell, dual socket (144 cores)		Haswell, dual socket (192 cores)	
©	RAM	1.28TB or	1.28TB or 2TB ⁸		3	4TE	3	6TE	3	8TB	

4TB drives	X2-R							
	1 Brick Cluster		2 Bricks Cluster		3 Bricks Cluster		4 Bricks Cluster	
Raw Capacity	TB:69.1 TiB:62.8	230 209.5	TB:138 TiB:125.8	460 419	TB:207.3 TiB:188.4	690 628.5	TB:276.4 TiB:251.2	920 838
Usable Capacity ⁶	TB:56.4 TiB:51.3	203.7 185.3	TB:112.8 TiB:102.6	407.4 370.6	TB:169.2 TiB:153.9	611.1 555.9	TB:225.6 TiB:205.2	841.8 741.2
Effective Capacity ⁷ [TB]	1220		2440		3661		4881	
Power Consumption (steady state) [VA]	1400-1700		3000-3510		4420-5200		5850-6900	
Cooling Requirements [BTU/Hr]	4,800-5,800		10,240-12,000		15,090-17,750		20,000-23,550	
CPU	Haswell, dual socket (48 cores)		Haswell, dual socket (96 cores)		Haswell, dual socket (144 cores)		Haswell, dual socket (192 cores)	
RAM	2TB		4TB		6TB		8TB	

		X2-S			
	1 Brick Cluster	2 Bricks Cluster	3 Bricks Cluster	4 Bricks Cluster	
Raw Capacity	TB:7.2 28.8 TiB:6.55 26.2	TB:14.4 57.6 TiB:13.1 52.4	TB:21.6 86.4 TiB:19.7 78.6	TB:28.8 115.2 TiB:26.2 104.8	
Usable Capacity ⁶	TB:5.4 24 TiB:4.9 22	TB:11 49 TiB:10 45	TB:16 74 TiB:15 67	TB:21 99 TiB:20 90	
Effective Capacity ⁷ [TB]	132	271	406	543	
Power Consumption (steady state) [VA]	1300-1580	2890-3410	4200-5000	5510-6550	
Cooling Requirements [BTU/Hr]	4,440-5,400	9,870-11,640	14,340-17,070	18,810-22,360	
CPU	Haswell, dual socket (48 cores)	Haswell, dual socket (96 cores)	Haswell, dual socket (144 cores)	Haswell, dual socket (192 cores)	
RAM	768GB	1.54TB	2.30TB	3.07TB	

In-Memory Space-Efficient Copies - Thousands of space-efficient, writeable copies are supported per cluster, allowing the effective utilization of the array to reach multiple Petabytes.

⁶ Usable capacity is the amount of unique, non-compressible data that can be written into the array.

⁷ Effective capacity includes the benefits of thin provisioning, inline global deduplication, inline compression, and space-efficient copies. Datasheet numbers are a representative example at 6:1 and will vary based on each customer's specific application environment and use of the XtremIO array.

⁸ Depends on ship date

^{3 |} XtremIO X2 Specifications © 2020 Dell Inc. or its subsidiaries.

X2 Brick Ar	ray Controller
AC Input Voltage ⁹	90-264V, 47-63Hz single phase
Rack Space	10
Dimensions (height x width x depth)	43.2mm x 438mm x 756mm (1.7" x 17.25" x 29.75")
Weight	16kg (35 lbs.)
Power Consumption (typical, @25C) [X2-S/X2-R]	450VA / 500VA
Power Socket Number/Type	2 x IEC C14
X2 Brick Disk Arr	ay Enclosure (DAE)
AC Input Voltage ⁹	100-240V, 50-60Hz single phase
Rack Space	20
Dimensions (height x width x depth)	88.9mm x 438mms x 927.1mm (3.5" x 17.25" x 36.5")
Weight	44kg (97 lbs.)
Power Consumption (typical, @25C ,18 to 72 SSDs)	270VA-550VA
Power Socket Number/Type	2 x IEC C14

X2-R InfiniBand Switch (Two Included with Multi X-Brick Systems)				
Ports	36			
AC Input Voltage ⁹	100-240V, 50-60Hz			
Rack Space	1U			
Dimensions (height x width x depth)	43.7mm x 428mm x 686mm (1.72" x 16.84" x 27")			
Weight	11.5kg (25 lbs.)			
Power Consumption (typical, @25C)	106VA			
Power Socket Number/Type	2 x IEC C14			
X2-S InfiniBand Switch (Two I	included with Multi X-Brick Systems)			
Ports	12			
AC Input Voltage ⁹	100-240V, 50-60Hz			
Rack Space	10			
Dimensions (height x width x depth)	43.7mm x 200mm x 399mm (1.72" x7.9" x 15.7")			
Weight	3.2kg (7.1 lbs.)			
Power Consumption (typical, @25C)	100VA			
Power Socket Number/Type	2 x IEC C14			
Enviro	nmental			
Operating Temperature	5° to 40°C			
Non-Operating Temperature	-20° to 50°C			
Operating Relative Humidity	10% to 90% (non-condensing)			
Non-Operating Relative Humidity	5% to 90% (non-condensing)			
Regulatory and Compliance ¹⁰	ASHRAE A3 and See Note 10.			
System AC Input Voltage ⁹ (single phase, 3-phase WYE, 3-phase Delta)	200-240V, 50-60Hz			

⁹ Note that RPQ process is required in order to work under low line voltage input.

¹⁰ DELL EMC Information Technology Equipment is compliant with all currently applicable regulatory requirements for Electromagnetic Compatibility, Product Safety, and Environmental Regulations where placed on market. Detailed regulatory information and verification of compliance is available at the Dell Regulatory Compliance website. http://dell.com/regulatory compliance





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