



XTREMIO X2 SPECIFICATIONS

XtremIO X2 is released with V6.2 XIOS Software or higher



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

³ CMD - Cable Management Duct. optional.

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

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

Performance (100% random IOs, no caching, on preconditioned & prefilled arrays)	1 Brick Cluster	2 Bricks Cluster	3 Bricks Cluster	4 Bricks Cluster
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		1 Brick Cluster	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
	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
	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	1476	2214	2958				
Power Consumption (steady state) [VA]	1400-1550		1400-1700	3000-3510	4420-5200	5850-6900				
Cooling Requirements [BTU/Hr]	4,800-5,300		4,800-5,800	10,240-12,000	15,090-17,750	20,000-23,550				

4TB drives	X2-R			
	1 Brick Cluster	2 Bricks Cluster	3 Bricks Cluster	4 Bricks Cluster
Raw Capacity	TB:69.1 230 TiB:62.8 209.5	TB:138 460 TiB:125.8 419	TB:207.3 690 TiB:188.4 628.5	TB:276.4 920 TiB:251.2 838
Usable Capacity ⁶	TB:56.4 203.7 TiB:51.3 185.3	TB:112.8 407.4 TiB:102.6 370.6	TB:169.2 611.1 TiB:153.9 555.9	TB:225.6 841.8 TiB:205.2 741.2
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

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

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.

X2 Brick Array Controller	
AC Input Voltage ⁷	90-264V, 47-63Hz single phase
Rack Space	1U
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 Array Enclosure (DAE)	
AC Input Voltage ⁷	100-240V, 50-60Hz single phase
Rack Space	2U
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 Voltage⁷	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 Included with Multi X-Brick Systems)	
Ports	12
AC Input Voltage⁷	100-240V, 50-60Hz
Rack Space	1U
Dimensions (height x width x depth)	43.7mm x 200mm x 399mm (1.72" x 7.9" x 15.7")
Weight	3.2kg (7.1 lbs.)
Power Consumption (typical, @25C)	100VA
Power Socket Number/Type	2 x IEC C14
Environmental	
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	CE, UL, FCC/EMC, RoHS2, ASHRAE A3
System AC Input Voltage⁷ (single phase, 3-phase WYE, 3-phase Delta)	200-240V, 50-60Hz

⁷ Note that RPQ process is required in order to work under low line voltage input.



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