





Humidity



Onyx2 Technical Specifications

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	Onyx2 Reality Deskside	Onyx2 InfiniteReality2 Deskside	Onyx2 InfiniteReality2 Rack Single-Pipe	Onyx2 InfiniteReality2 Rack 16-Pipe with Multipipe Rendering†
Graphics				
Polygons/sec Pixel fill, smooth, Z Pixel fill, textured, AA, Z Anti-aliased vectors/sec Trilinear interpolations/sec Convolutions/sec [5x5 sep. RGBA] Voxels/sec 24-bit floating-point Z Color Overlay planes Anti-aliasing multisampling Max. bits/pixel Graphics pipelines Geometry Engine processors/pipeline Raster Managers/pipeline Texture memory/pipeline	5.5M 224M to 448M 94M to 188M 100M to 200M 6.4M 100M to 200M Yes 48-bit RGBA 16 4x4 128 to 512 1 2 1 to 2 64MB	13.1M 224M to 384M 192M to 384M 8.6M 200M to 400M 15.3M 200M to 400M Yes 48-bit RGBA 16 8x8 256 to 2,048 1 4 1 to 2 64MB	13.1M 224M to 896M 192M to 768M 8.6M 200M to 800M 15.3M 200M to 800M Yes 48-bit RGBA 16 8x8 256 to 2,048 1 to 16 4 1 to 4 and 1 to 2 64MB	210M 7.2B 6.1B 138M 6.4B 245M 6.4B 245M 6.4B Yes 48-bit RGBA 16 8x8 256 to 2,048 1 to 16 4 1 to 4 and 1 to 2 Up to IGB combined texture memory capacity with MonsterMode software
Frame buffer size/pipeline Display channels/pipeline Display capability Std. monitor size resolution	40MB to 80MB 2 or 8 VGA to HDTV 20" 1280x1024	80MB to 160MB 2 or 8 VGA to HDTV 24" 1920x1200	80MB to 320MB 2 or 8 VGA to HDTV 24" 1920x1200	80MB to 320MB I [†] , 2, or 8 VGA to HDTV 24" 1920x1200
Computer Platform				
CPU Quantity Primary caches [ins./data] Secondary cache RAM Disk storage [internal] Expansion slots Dimensions Weight [max. configuration] Standard monitor weight	MIPS RI2000 2 to 4 32KB/32KB 8MB 256MB to 86B 1 to 5 9.IGB or 18.2GB Ultra SCSI 4 XIO slots standard and 3-slot PCI optional 24" L, 20" W, 26.5" H 215 lb [98 kg] 71.6 lb [32.5 kg]	MIPS RI2000 2 to 4 32KB/32KB 8MB 256MB to 8GB 1 to 5 9.1GB or 18.2GB Ultra SCSI 4 XIO slots standard and 3-slot PCI optional 24" L, 20" W, 26.5" H 215 lb [98 kg] 90.2 lb [41 kg]	MIPS RI2000 2 to 8 32KB/32KB 8MB 256MB to 16GB 1 to 11 9.1GB or 18.2GB Ultra SCSI or 10 3.5" Fibre Channel 9 XIO slots standard and 3-slot PCI optional 39" L, 29" W, 73" H 800 lb [364 kg] 90.2 lb [41 kg]	MIPS RI2000 4 to 128 32KB/32KB 8MB 256MB to 256GB 1 to 11 9.1GB or 18.2GB Ultra SCSI or 10 3.5" Fibre Channel per rack 9 XIO slots standard and 3-slot PCI optional per rack 39" L, 29" W, 73" H per rack 800 lb [364 kg] per rack 90.2 lb [41 kg]
Electrical and Power				
Voltage	100 to 120 or 200 to 240 VAC, 1 phase [configurations limited below 200 V°]	100 to 120 or 200 to 240 VAC, 1 phase [configurations limited below 200 V*]	200 to 240 VAC, I phase	200 to 240 VAC, I phase
Frequency Power	47 to 63 Hz 2,300 W max at 208 V, 1,840 W max at 120 V	47 to 63 Hz 2,300 W max at 208 V, 1,840 W max at 120 V	47 to 63 Hz 4,750 W (compute and graphics module) or 5,050 W (two graphics modules)	47 to 63 Hz 4,750 W (compute and graphics module] or 5,050 W [two graphics modules] per rack
Heat dissipation	7,843 BTU/hr [208 V], 6,274 BTU/hr [120 V]	7,843 BTU/hr (208 V), 6,274 BTU/hr (120 V)	l6,198 BTU/hr [compute and graphics module] or 17,220 BTU/hr [two graphics modules] NEM 16 20 U.S. codul	16,198 BTU/hr (compute and graphics module) or 17,220 BTU/hr (two graphics modules) per rack
	NEMA 5-20 (120 V) (U.S. only)	NEMA 6-15 (208 V) (U.S. only)	NEMA 20-50 (0.5. 010)	
Noise	5U dBa	pn qRa	ob to /U dBa	ob to 70 dBa
I/O IVELWOIKING dHU CUIIIIIUIIICallUII			Removable Media	
Standard data	4umb/sec UITa SCSI, IUBase-1/IUBase-1/k Ethernet, 4 460 kbaud asynchronous serial ports, 2 keyboard ports, 2 mouse ports, parallel port 2.75 ohm BNC AES/EBU stereo in/out, 2 optical ADAT 8-channel in/out,		Optional	DDS-2 (DAT), 8 mm Exabyte, DLT tape
Optional data	RCA phono jack stereo line-level input output, 3.5 headphone output, mono microphone input jack XIO to PCI adapter [I full-height, 2 double-height 264MB/sec], XIO to VME adapter [6U, 9U], FDDI s dual attach, UTP FDDI, Token Ring, ISDN, high-sp serial, 100MB/sec Fibre Channel [2 ports], 40MB, Venetbel Venetbel (1 add)	i mm stereo analog slots, I32MB to ingle attach, FDDI beed synchronous fsec Ultra SCSI	Environmental (nonoperating) Temperature Humidity Altitude	-20 to +60°C [-4 to +140°F] 10% to 95% noncondensing 40,000 MSL
[4 ports], IUUBase-IX [4 ports], combined with 460 kbaud asynchronous serial [6 ports], ATIMOC3 [4 ports], and ATMOC12, DIVO in/out [CCIR60], SMPTE 259] ^o Omy/2 Reality with 2 Raster Managers and 2 node boards or Omy/2 InfiniteReality Deskside with 2 Raster Managers or 2 node boards requires 200 VAC or greater			Environmental joperatingj Temperature	+5 to +35°C [+41 to +95°F] altitude 5,000 MSL +5 to +30°C [+41 to +86°F] altitude 10,000 MSL

requires 200 VAC or greater

[†] 2 Raster Managers per pipe and DPLEX option [†]I analog and I digital with DPLEX

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10% to 90% noncondensing