

Table 1. Workstation Features

COMPANY	@XI COMPUTER CORP.	HEWLETT-PACKARD	POLYWELL COMPUTERS	SYS TECHNOLOGIES	TRI CAD/CAM SYSTEMS	VELOCITY MICRO
System	MTower SP	HP Workstation xw4100	Poly 900NF3-FX	PowerHouse 148	StarStation FX	ProMagix A/V/D
Star rating	★★★★★	4 stars	★★★★★	4 stars	4.5 stars	★★★★★
Phone	800.432.0486	800.752.0900	800.999.1278	714.821.3900	800.800.1714	800.303.7866
Web site	www.xicomputer.com	www.hp.com	www.polywell.com	www.sys.com	www.tricadcam.com	www.velocitymicro.com
Estimated street price	\$3,749	\$3,837	\$4,399	\$5,321	\$3,995	\$4,160
Warranty coverage						
Labor/parts/on-site (months)	36/36/12	36/36/36	36/60/12	36/36/12	3-year limited warranty	36/36/12
24-hour replacement parts	Yes	Yes	Yes	Yes	Available	Yes
24-hour telephone support	Yes	Yes	Yes	Yes	No, 6:00 a.m. 5:00 p.m. PST	Yes
CPU type/speed	Intel Pentium 4/3.2GHz	Intel Pentium 4/3.2 GHz	AMD Athlon64 FX-51	AMD Opteron 148/2.2GHz	Intel Pentium 4/3.2GHz	Intel Pentium 4 Extreme
Edition/3.2GHz						
L2 cache size/speed	512KB/Full	512KB/800 MHz	1MB, 1600MHz system bus	1MB/Full	512KB/Full	512KB L2/2MB L3
Chipset	Intel 875	Intel 875P	nForce-3	Via K8T800	Intel D875	Intel 875P
Front-side bus speed	800MHz	800MHz	1600MHz system bus	800MHz	800MHz	800MHz
PCI bus size/speed	5X32bit/33MHz	32bit/33MHz	32bit/33MHz	5X32bit/33MHz	5 X 32bit/33MHz	5 X 32bit/33MHz
Motherboard vendor/model	Asus P4C800-E	HP xw4100	Asus SK8N	Asus SK8V	Intel D875PBZ	Intel D875PBZLK
Memory type/speed	DDR/400	PC 3200/DDR 400	PC3200 DDR/400MHz	DDR PC3200 Reg/ECC (pairs)	4 Legacy/512MB PC3200	DDR/400 (PC3200)
Memory as tested/maximum	2GB/4GB	2GB/4GB	2GB/4GB	2GB/8GB	2GB/4GB	2GB/4GB
Memory sockets; total/free	4/2	4/0	4/0	4/0	4/0	4/2
Supports DDR	Yes	Yes	Yes, 400MHz	Yes	Yes	Yes
System BIOS; date	AMI 2.51	1.13	Phoenix Oct. 2004	10/22/2003	P17 11/24/2003	BZ87510A.86A.P17.0311241511 (P17), November 24, 2003
Power supply vendor/capacity	AMS/430W	HP/280W	RAIDMax/420W	Enermax/460W	Antec/400W	Antec/430W
Hard drive vendor	Western Digital	Varies	Western Digital	Western Digital	Seagate	Western Digital
Drive type	ATA100	SATA	2 X SATA 10K rpm system 36G drive, 1 X IDE 7,200rpm data 200G drive	SATA/8M cache	SATA	SATA/150
Drive size	200GB	80GB	2 X 36GB, 1 X 200GB	2 X 200GB (400GB total—RAID 0)	80GB	2 X 120GB
CD-ROM drive vendor	Samsung	HP	Sony U14A DVD-RW + BTC CD-RW	Lite-On	Sony CD/RW	Lite-On
Drive speed	48X/48X/24X	48X/24X/48X	4RX2WX8 -R/RW, 4RX4WX8+R/RW, 24X 16X32 CDRW, BTC: 52X32X52 CD-RW	48X/24X/48X/16X DVD	48X/24X/48X	52X/32X/52X CD-RW
Other drive	No	No	3.5" floppy, 7-in-1 card reader drive	Plextor PX708A DVD +/- R/RW	Sony DVD	Lite-On 4X DVD+/-RW
Sound card	On-board AC 97 Codec	Integrated A97	On-board NVIDIA SoundStorm 5.1	Integrated AC97	Sound Blaster Live	SoundBlaster Audigy 2
Speakers	No	No	No	No	No	No
Pointing device	Logitech (OEM) 2+ wheel PS/2 mouse black optical	HP scroll mouse	Microsoft wireless optical desktop keyboard, mouse	Microsoft Wireless Optical Explorer 2	Logitech MX500	Microsoft Intellimouse optical
Expansion slots provided (PCI/PCI-ISA/ISA)	5/0/0	5/0/0	5/0/0	5/0/0	5/0/0	5/0/0
Expansion slots filled (PCI/PCI-ISA/ISA)	1/0/0 (blocked)	0/0/0	0/0/0	0/0/0	1 PCI blocked /1 PCI used	1/0/0
Drive bays accessible (5.25"/3.5")	4/2	3/1	4/2	3/2	4/2	4/2
Drive bays internal (5.25"/3.5")	0/5	0/2	0/4	0/3	0/4	4/6
Ports						
USB (1.x/2.x)	2/4	0/6	0/6	0/4	0/8	0/8
Serial/parallel	2/1	2/1	2/1	1/1	1/1	2/1
MIDI/game	Yes	No	1/1	No	1 (on sound card)	0/0
External SCSI	Optional	Optional	No	No	No	No
Network card /modem	Integrated 10/100/none	Broadcom 5782 10/100/1000 PCI/Lucent V90 56K Modem PCI card	On-board 10/100Mbit Ethernet/none	Gigabit NIC/none	Intel Pro/1000 CT/none	Integrated Intel 10/100/1000/none
Dimensions (hXwXd)	17.875" X 7.875" X 17.5"	17.7" X 6.6" X 17.9"	16.5" X 7.85" X 18.9"	18.8" X 8.7" X 16.5"	21.25" X 8" X 19"	21" X 8" X 19"
Graphics card bus (AGP/PCI)	AGP 8X	AGP 8X	AGP 8X	AGP 8X	AGP 4X	AGP 8X
Graphics card vendor/model	PNY NVIDIA Quadro FX 3000	NVIDIA Quadro FX 1100	PNY NVIDIA Quadro FX 3000 256M	PNY NVIDIA Quadro FX 3000	PNY Quadro FX 3000	PNY Quadro FX 3000
Chipset	NVIDIA Quadro FX 3000	NV36GL	NVIDIA Quadro FX 3000	NVS 280	NVIDIA Quadro FX 3000	NVIDIA Quadro FX 3000
Frame-buffer memory installed (max.)	256MB/256MB	128MB/128MB	256MB/256MB	256MB/256MB	256MB/256MB	256MB/256MB
Texture memory installed (max.)	Unified	Unified	256MB/256MB	256MB/256MB	256MB/256MB	256MB/256MB
Driver version	6.14.10.5214	6.14.10.5218	6.14.10.5216	6.14.10.5216	6.14.10.5214	6.14.10.5214
Max 3D resolution; double buffer/ 16-bit z-buffer (70Hz min.)	Two analog displays: 2048x1536@85Hz each	2048X1536	3840X2400	2049X1536 (one display)	Two analog displays: 2048X1536@85Hz	Two analog displays:
2048X1536@85Hz						
Colors/refresh	True color	True color	True color	True color	True color	True color
AutoCAD (driver version)	Standard (wopengl8.hdi)	Standard (wopengl8.hdi)	Standard (wopengl8.hdi)	Standard (wopengl8.hdi)	Standard (wopengl8.hdi)	Standard (wopengl8.hdi)
Return policy/Restocking fee	30 days money back/None	30 days/None	30 days/15%	7-day no charge; 15% after 7 days; no return after 30	Restocking Fee??	30 days to return; 15% restock fee
Total Weighted Index C2001 v3.0 (1280X1024; true-color)						
C2001 Total Index	132.50	98.00	130.72	115.65	122.03	132.10
C2001 Wireframe Index	138.05	75.95	127.51	125.37	125.89	137.55
C2001 Gouraud Shade Index	201.12	143.13	193.19	196.67	193.66	209.24
C2001 Nongraphics Index	111.30	104.45	125.11	105.55	108.11	113.99
C2001 2D Graphics Index	79.54	68.45	77.08	35.02	60.47	67.62