

## hp workstation c3650



data sheet

## the perfect balance of performance and price

The HP workstation c3650 with UNIX offers the perfect balance of price and performance in a deskside design system for running mechanical design and CAE applications. Supporting a high performance CPU; wide range of graphics alternatives; and maximum configuration flexibility all at attractive pricing, the HP workstation c3650 delivers the superior application performance you need to deal with your most compute intensive tasks. It will help slash product cycle times and shorten time to market. The HP workstation c3650 is perfect for engineers designing complete products, reviewing virtual prototypes, and performing small to medium-sized analyses.

The driving force behind the HP workstation c3650 is a PA-8700 processor running at 625-MHz. Team the power of the PA-8700 processor with the HP workstation c3650's capacity to support up to 8-GB RAM, 146-GB internal disk, and six PCI cards, and you have a high intensity performance workstation at an affordable price. If you need configuration flexibility with a familiar form factor and O/S, you can deploy the HP workstation c3650 with confidence. Invent the future in real time with the HP workstation c3650.

hp workstation c3650	feature	benefit	advantage		
performance	PA-8700 RISC-processor running at 625-MHz	maximizes bandwidth and boosts system performance/execution	best application performance		
	2.25-MB on-chip cache	enhances system performance by minimizing latency and maximizing throughput	industry's largest on-chip cache increases application performance		
	four-way set associative cache	requires less disk-to-cache access for instructions and data, providing higher performance	decreases the miss rate of direct mapped cache		
	8-GB SDRAM capacity	delivers higher application performance with less disk access; supports interactive work with complex 3D designs and virtual prototypes	delivers the largest RAM capacity available on any uni-processor workstation today		
graphics	hp <i>fxe</i> graphics card	enables universal access to all types of data across diverse, cross-functional teams	provides full-featured, 3D capability across all hp workstation platforms		
	hp fx <sup>5</sup> pro graphics card	supports faster visualization of mid-size mechanical assemblies	delivers the industry's best mid-range 3D graphics performance for mechanical design work		
	hp fx <sup>10</sup> pro graphics accelerator	greater user productivity and performance in mechanical applications	delivers high-end 3D graphics performance for mechanical design and analysis		
	hp Fire GL-UX	greatest user productivity and performance for mechanical applications and virtual prototyping	delivers the world's fastest 3D UNIX graphics performance for for mechanical design and analysis		
integration	rack mountable	saves space, particularly when deployed in your systems operations room	supports on-side configuration as well as upright, desktop placement		
investment protection	expansive tower with 6 industry- standard PCI slots	gives you the flexibility to expand your system	provides more capacity for PCI I/O cards		
	binary compatibility with future  PA-RISC and Intel® Itanium™  processors	protects your investment in applications, data and systems	ensures smooth transition to hp's next-generation high-performance systems		

## hp workstation c3650 technical specifications

control processor	
type	PA-8700
clock frequency	625-MHz
number of processors	1
neimony coche (on chin)	
primary cache (on chip) total cache	2.25-MB
instruction	0.75-MB
data	1.50-MB
performance HP workstation performance resul http://www.hp.com/workstation	Its can be found at: s/products/unix/performance.html
main memory	
bus bandwidth	1.9-GB/sec
RAM type	120-MHz SDRAM
capacity	512-MB to 8-GB
memory slots	8
PCI slots (6 total)	
PCI 1X (half card)	2 slots
PCI 2X (full size)	3 slots
PCI 4X (full size)	1 slot
internal store as deaders	
internal storage devices	OO nin COA connector
Ultra 2 SCSI LVD	80 pin SCA connector
	2 drives maximum
	18-GB (10K RPM)
	36-GB (10K RPM)
	36-GB (15K RPM)
	73-GB (10K RPM)
removable media	
DVD-ROM or CD-RW	1 internal
3.5 inch/1.44-MB flloppy driv	ve 1 internal
external storage	
NSE SCSI (HD50)	1 port - up to 7 devices
Ultra2 SCSI LVD	1 port - up to 13 devices
networking interface integrated	10/100 Base-Tx
LAN data rate	10/100 Base-1x 10/100 Mbits/sec
LAIN data fate	107 100 Mbits/ sec
other I/O	
serial interface 9-pin DIN	2 ports
parallel interface 25-pin DIN	1 port
USB Series A	2 ports
	(keyboard and mouse only)
audio	
type	integrated, CD-quality stereo
inputs	stereo line-in, MIC-in
outputs	stereo line-out, internal
<b></b>	speaker, headphone
monitor	00 track 10D
hp L2025	20-inch LCD, flat-panel
hp L1825	18-inch LCD, flat-panel
hp wide-aspect	24-inch CRT, flat-screen, wide aspect
hp p1130	21-inch CRT, flat-screen
hp p920	19-inch CRT, flat-screen
operating system supported	
operating system supported	

operat	ling	S	ys	ten	n s	ur	pp	ori	tec	ı

hp-ux 11i TCOE (Technical Computing Operating Environment) hp-ux 11i MTOE (Minimal Technical Operating Environment) hp-ux 11.0

environmental specifications			
altitude			
operating	0-3000 m (0-10,000 ft)		
non-operating	0-4500 m (0-15,000 ft)		
temperature			
operating	5 to +40 °C		
non-operating	-40 to +70 °C		
humidity			
operating	15 to 80% (non condensing)		
vibration			
operating random	0.21 Grms, 5-500-Hz		
swept sine survival	0.50 Gpeak 5-500-Hz		
random survival	2.09 Grms, 5-500-Hz		
safety	UL1950, CUL to CSA		
	C22.2#950, and TUV GS		
	Mark to EN60950/IEC950		
emissions	FCC and CISPR Class A		
	and VCCI Class A		
physical dimensions			
height	44.5 cm (17.5 inches)		
width	22.0 cm (9.0 inches)		
depth	49.5 cm (19.5 inches)		
physical dimensions with rack kit	47.5 cm (17.5 menes)		
height	6 EIA units		
width	48.3 cm (19 inches)		
depth	66.5 cm (25.8 inches)		
rack orientation	system racks on its side		
	-,		
net weight			
minimum configuration	20.9 kg (45.9 lbs.)		
fully loaded	25.4 kg (55.8 lbs.)		
power requirements	7.4 amma DMC many		
input current	7.4 amps RMS max @ 100-120 V		
	3.8 amps RMS max @ 220-240 V		
line frequency	© 220-240 V 50-60-Hz		
line frequency maximum power input	805 watts @ 120 VAC, 60-Hz		
maximum power imput	000 walls w 120 vAC, 00-HZ		

hp graphics	hp Fire GL-UX	hp fx <sup>10</sup>	hp fx <sup>5</sup> pro	hp fxe
graphics cards	1 max	1 max	1 max	4 max
max VGA resolution	1920x1200	1920x1200	1920x1200	1600x1200
max digital resolution	1600x1200	1600x1200	1600x1200	n/a
video memory (FB)	128-MB	128-MB	64-MB	24-MB
texture memory	shared	shared	shared	shared
max texture memory	110-MB	110-MB	48-MB	9.5-MB
(1280x1024 resolution)	)			
hardware double buffered overly	yes	yes	yes	yes
antialiased points & lines	yes	yes	yes	yes
full scene hardware antialiasing	yes	yes	no	no
stereo viewing	yes	yes	no	no
8-bit alpha planes	yes	yes	yes	no
visibility testing & occlusion culling	yes	yes	yes	no
full scene antialliasing	yes	yes	n/a	n/a
hardware accumulation buffer	yes	yes	no	no

The hp workstation c3650 - power to invent in real time

For the latest information about hp workstations: www.hp.com/go/workstations

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