



hp workstation c3700



data sheet

extreme uniprocessor power

Pure processing power. The HP workstation c3700 is the ultimate uniprocessor UNIX deskside tower. It will help slash product cycle times and shorten time to market. Engineers and scientists working in the automotive, aerospace, and EDA markets will particularly appreciate the compute power offered by the HP workstation c3700. The HP workstation c3700 draws its speed from the PA-8700 processor running at 750MHz. Team the power of the PA-8700 with the hp workstation c3700's capacity to support up to 8GB RAM, 146GB internal disk, and six PCI cards, and you have a workstation that breaks through traditional bottle-necks of computation and desktop 3D design.

Complimented by robust system architecture with fast memory and disk technologies, the HP workstation c3700 is masterfully crafted and optimized to maximize bandwidth, minimize system latency, and boost performance.

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performance

feature	benefit	advantage
PA-8700 RISC-processor running at 750MHz	completes your designs faster than any other desktop available today	best application performance
2.25MB on-chip cache	enhances system performance with greater application speed and throughput	minimizes system latency with the industry's largest on-chip cache
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
8GB Synchronous DRAM 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 accelerator	enables universal access to all types of data across diverse, cross-functional teams	provides full-featured, 3D capability across all hp workstation platforms
hp <i>fx⁵pro</i> graphics accelerator	supports faster visualization of mid-size mechanical assemblies	delivers the industry's best mid-range 3D graphics performance for mechanical design work
hp <i>fx¹⁰pro</i> graphics accelerator	supports faster visualization and interactive work with the largest 3D models	delivers the world's fastest 3D graphics performance for mechanical design work.

integration

rack mountable	saves space, particularly when deployed in your systems operations room	supports on-side configuration as well as upright, desktop placement
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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 c3700 technical specifications

central processor	
type	PA-8700
clock frequency	750MHz
number of processors	1

primary cache (on chip)	
total cache	2.25MB
instruction	0.75MB
data	1.50MB

performance
 HP workstation performance results can be found at:
<http://www.hp.com/workstations/products/unix/performance.html>

main memory	
bus bandwidth	1.9GB/sec
RAM type	120MHz SDRAM
capacity	512MB-8GB
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 storage devices	
Ultra 2 SCSI LVD	80 pin SCA connector 2 drives maximum
	18GB (10K RPM)
	36GB (10K RPM)
	36GB (15K RPM)
	73GB (10K RPM)

removable media	
CD-ROM or CD-RW*	1 internal
3.5 inch/1.44MB floppy drive	1 internal
*HP-UX 11.0 and higher	

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 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 speaker, headphones

hp graphics	hp fxe	hp fx ⁵ pro	hp fx ¹⁰ pro
graphics cards	4 max	1 max	1 max
max resolutions*	1600x1200	1920x1200	1920x1200
image planes/overlay planes	24/24DB**	24/24DB	24/24DB
z-buffer	8 overlay	8 overlay	8 overlay
stencil planes	24-bit HW	24-bit HW	24-bit HW
alpha planes	4-bit HW	4-bit HW	4-bit HW
texture memory	SW	8/8DB HW	8/8DB HW
color maps	Std. 9.5MB	48MB***	110MB***
image planes	2 image	2 image	2 image
overlay planes	2 overlay	2 overlay	2 overlay

monitor	
18.1" (18.1" viewable)	1280x1024 res LCD flat panel display
19" (18" viewable)	1600x1200 res. Flat FD Trinitron® CRT display
21" (19.8" viewable)	1600x1200 res flat FD Trinitron CRT display
24" (22.5" viewable)	1920x1200 res flat FD Trinitron CRT display

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

environmental specifications	
altitude	
operating	0-3000m (0-10,000 ft)
non-operating	0-4500m (0-15,000 ft)
temperature	
operating	5 to +40 degrees C
non-operating	-40 to +70 degrees C
humidity	
operating	15 to 80% (non condensing)
vibration	
operating random	0.21 G rms, 5-500Hz
swept sine survival	0.5 G peak, 5-500Hz
random survival	2.09 G rms, 5-500Hz
safety	UL1950, CUL to CSA C22.2#950, and TUV GS Mark to EN60950/IEC950
emissions	FCC and CISPR Class B and VCCI Class B

physical dimensions	
height	44.5cm (17.5 inches)
width	22.9cm (9.0 inches)
depth	49.5cm (19.5 inches)

physical dimensions with rack kit	
height	6 EIA units
width	48.3cm (19 inches)
depth	66.5cm (25.8 inches)
rack orientation	system racks on its side

net weight	
minimum configuration	20.9kg (45.9 lbs.)
fully loaded	25.4kg (55.8 lbs.)

power requirements	
input current	7.4amps RMS max @ 100-120V 3.8 amps RMS max @ 220-240V
line frequency	50-60Hz
maximum power input	805 watts @ 120 VAC, 60Hz

The hp c3700 workstation— power to invent in real time

For the latest information about HP workstations:
<http://www.hp.com/workstations>

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* with full feature set and 75Mz refresh
 ** DB=double buffered
 *** at 1280x1024 resolution