



hp workstations c3700 and c3750

data sheet



design power

Pure processing power. The HP Workstations c3700 and c3750 are ultimate uni-processor RISC-based UNIX workstation with a single PA-8700 750-MHz or PA-8700+ 875-MHz processor delivering leadership 3D graphics performance, expandability and value. Engineers and scientists working in the automotive, aerospace, and EDA markets will particularly appreciate the compute power to help slash product cycle times and shorten time to market. Team the power of the PA-RISC processor with the capacity to support up to 8-GB RAM, 146-GB internal disk, and six PCI cards, and you have a workstation that breaks through traditional bottle-necks of computation and desktop 3D design.



3D graphics performance, expandability and value

features

750-MHz PA-8700 or
875-MHz PA-8700+ processor

2.25-MB on-chip cache

four-way set associative cache

8-GB SDRAM capacity

hp *fxe* graphics card

hp *fx⁵ pro* graphics card

hp *fx¹⁰ pro* graphics card

hp Fire GL-UX graphics card

rack mountable

expansive tower with 6 industry-
standard PCI slots

binary compatibility with future
PA-RISC and Intel® Itanium®
processors

benefits

delivers application performance to complete your designs
faster

minimizes system latency with large on-chip cache,
enhances system performance with greater application
speed and throughput

decreases the miss rate of direct mapped cache –
requiring less disk-to-cache access for instructions and
data, providing higher performance

delivers the largest RAM capacity available on any uni-
processor workstation for higher application performance
with less disk access, supports interactive work with
complex 3D designs and digital prototypes

provides full-featured, 3D capability for universal access to
all types of data across diverse, cross-functional teams

delivers mid-range 3D graphics performance for
mechanical design work with faster visualization of mid-
size assemblies

delivers high-end 3D graphics performance for mechanical
design and analysis for greater user productivity and
performance

delivers fastest 3D UNIX graphics performance for
mechanical design and analysis with greatest user
productivity and performance

supports on-side configuration as well as upright, desktop
placement for space optimization when deployed in your
computer rooms

provides more capacity for PCI I/O cards for flexibility to
expand your system

ensures smooth transition to hp's next-generation high-
performance systems, protects your investment in
applications, data and systems

hp workstation c3700 and c3750 technical specifications

processor	hp c3700	hp c3750
type	PA-8700	PA-8700+
clock frequency	750-MHz	875-MHz
number of processors	1	1
cache (on-chip)		
total cache	2.25-MB	
instruction	0.75-MB	
data	1.50-MB	
main memory		
bus bandwidth	1.9-GB/s	
RAM type	120-MHz SDRAM	
capacity	512-MB to 8-GB	
memory slots	8 DIMMs	
storage bays	1 floppy, 1 optical, 2 Ultra 2 SCSI LVD	
internal storage (2 bays)	up to 2 devices, 146-GB maximum Ultra 2 SCSI LVD, 80 pin SCA connector 18-GB (10K RPM) 36-GB (10K RPM) 73-GB (10K RPM) 36-GB (15K RPM)	
external storage		
NSE SCSI (HD50)	1 port - up to 7 devices	
Ultra2 SCSI LVD	1 port - up to 13 devices	
removable media		
floppy drive	1 floppy drive (3.5 inch/1.44-MB)	
optical drive	1 DVD or CD-RW	
expansion slots (6 total)		
PCI 1X (half card)	2 slots	
PCI 2X (full size)	3 slots	
PCI 4X (full size)	1 slot	
integrated networking		
LAN data rate	10/100-Mb/s	
built-in I/O		
serial interface 9-pin DIN	2 ports	
parallel interface 25-pin DIN	1 port	
USB (Universal Serial Bus) 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	
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 degrees C	
– non-operating	-40 to +70 degrees C	
humidity		
– operating	15 to 80% (non condensing)	
vibration		
– operating random	0.21 G rms, 5-500-Hz	
– swept sine survival	0.5 G peak, 5-500-Hz	
– random survival	2.09 G rms, 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
width
depth

deskside configuration

44.5 cm (17.5 inches)
22.9 cm (9.0 inches)
49.5 cm (19.5 inches)

height
width
depth
rack orientation

racked configuration

6 EIA units
48.3 cm (19 inches)
66.5 cm (25.8 inches)
system racks on its side

net weight

minimum configuration
fully loaded

20.9 kg (45.9 lbs.)
25.4 kg (55.8 lbs.)

power requirements

input current

7.4 amps RMS max @ 100-120 V
3.8 amps RMS max @ 220-240 V

line frequency

50-60-Hz

maximum power input

805 watts @120 VAC, 60-Hz

supported operating systems

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

monitors

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

leadership graphics—entry 3D

hp *fxe*

4 maximum, 24-MB FB memory,
9.5-MB maximum texture memory at
1280 x 1024 resolution

leadership graphics—mid-range 3D

hp *fx⁶ pro*

1 maximum, 64-MB FB memory,
48-MB maximum texture memory at
1280 x 1024 resolution

leadership graphics—high-end 3D

hp *fx¹⁰ pro*

1 maximum, 128-MB FB memory,
110-MB maximum texture memory at
1280 x 1024 resolution

leadership graphics—extreme 3D

hp Fire GL-UX

1 maximum, 128-MB FB memory,
110-MB maximum texture memory at
1280 x 1024 resolution

For more information about the HP leadership graphics program:

www.hp.com/go/leadershipgraphics

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