



hp
workstation
j6700



data sheet

largest memory, smallest package available

The HP workstation j6700 delivers industry leading performance, unparalleled memory and compute density. It will ensure that you complete your designs and simulations faster than any other UNIX two way workstation. Whether used as a deskside configuration optimized for your office environment or a racked solution, the hp j6700's performance and reliability will satisfy the most demanding user.

When you need ultimate performance for today's toughest designs and simulations with the capacity to handle tomorrow's even bigger workloads, look to the HP workstation j6700. With HP and the HP workstation j6700, you have new ways to invent the future.

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j6700

performance

feature

benefit

advantage

- 2 PA-8700 RISC processors running at 750MHz
- 16GB synchronous DRAM capacity
- 2.25MB on-chip cache
- four-way set associative cache
- 64x64 operating system and microprocessor
- 1.9GB/s I/O peak performance

- puts more compute and visualization power behind EDA and CAE applications; provides higher application performance at a lower price
- supports analysis of larger models
- enhances system performance with greater application speed and throughput; lowers cost
- requires less disk-to-cache access for instructions and data, providing higher performance
- improves large processing performance, such as full-chip simulation, logic synthesis and design rule checking
- delivers excellent file server performance

- holds the fastest microprocessor on the market
- delivers higher application performance with less disk access; largest memory available
- minimizes system latency
- decreases the miss rate of direct mapped cache
- furnishes large address spaces
- provides fastest data transfer to I/O

integration

efficient rack mountable design

saves space, particularly when used in your compute room; up to 20 systems per 2m rack

flexible configurations increase system versatility

graphics

- hp fxe graphics
- hp fx¹⁰ pro graphics
- hp Fire GLUX

- enables universal access to all types of data across diverse, cross-functional teams
- greater user productivity and performance in mechanical applications
- greatest user productivity and performance for mechanical applications and virtual prototyping

- provides full-featured, 3D capability across all HP workstation platforms
- delivers high-end 3D graphics performance for mechanical design and analysis
- delivers the world's fastest 3D UNIX graphics performance for for mechanical design and analysis

investment protection

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 j6700 technical specifications

central processor	
type	PA-8700
clock frequency	750MHz
number of processors	2

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 ECC SDRAM
capacity	1GB-16GB
memory slots	16

PCI slots (3 total)	
PCI 4X (full size)	3 slots 4x slots 64-bit 3.3 volt 66MHz 20 watts per slot

internal storage devices	
Ultra 2 SCSI LVD	80 pin SCA connector 2 drives maximum (hot pluggable)
	18GB (10K RPM) 36GB (10K RPM) 36GB (15K RPM) 73GB (10K RPM)

removable media	
DVD or DVD/CD-RW combo drive*	slim line ATAPI interface, 1 internal

*available on hp-ux 11.0 and higher only

external storage	
Ultra2 SCSI LVD	1 shared port – 13 devices
NSE SCSI	1 shared port – 7 devices

networking interface	
integrated	10/100 Base-Tx
LAN data rate	10/100 Mbits/sec

other I/O	
USB Series A	2 ports (keyboard and mouse only)
serial interface	2 ports

audio	
type	integrated, CD-quality stereo
inputs	stereo line-in, MIC-in
outputs	stereo line-out, internal speaker with frequency range of 25-20,000Hz, internal CD-ROM audio, headphone

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 systems 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 (0-10,000ft)
non-operating	0-4500m (0-15,000ft)
temperature	
operating	0 - +35 degrees C
non-operating	-40 - +70 degrees C
humidity	
operating	15-80% (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	
Class B	FCC and CISPR Class B and VCCI

physical dimensions	
height	49.5cm (19.5 inches)
width	13.7cm (5.4 inches)
depth	65.5cm (25.8 inches)

physical dimensions with rack kit	
height	2 EIA units
width	48.3cm (19.0 inches)
depth	62.2cm (24.5 inches)
rack orientation	horizontal

net weight	
minimum configuration	18.2kg (40 lbs.)
fully loaded	21.8kg (48 lbs.)

power requirements	
input current	6 amps RMS max @ 100-120V 3 amps RMS max @ 220-240V
line frequency	50-60Hz
maximum power input	600watts*
*maximum power-configuration will vary	

hp graphics	hp Fire GL-UX	hp fx ¹⁰ pro	hp fxe
graphics cards	2 max	2 max	3 max
max VGA resolution	1920x1200	1920x1200	1600x1200
max digital resolution	1600x1200	1600x1200	n/a
video memory (FB)	128MB	128MB	24MB
texture memory	shared	shared	shared
max texture memory (1280x1024 resolution)	110MB	110MB	9.5MB
hardware double buffered overly	yes	yes	yes
antialiased points & lines	yes	yes	yes
full scene hardware antialiasing	yes	yes	no
stereo viewing	yes	yes	no
8-bit alpha planes	yes	yes	no
visibility testing & occlusion culling	yes	yes	no
full scene antialiasing	yes	yes	n/a
hardware accumulation buffer	yes	yes	no

The hp workstation j6700 — power to invent in real time

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

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