hp j5600 UNIX workstation

data sheet

dual-processing performance with extreme compute and visualization power

The HP workstation j5600 with UNIX is a highly versatile computing platform that features dual HP PA-8600 processors with total on-chip cache of 1.5MB for powerful throughput at exceptional speeds.

In addition to peak memory and I/O bandwidths of 2GB/s, the HP j5600 comes standard with 1GB RAM (120MHz SDRAM) upgradeable to 8GB and seven I/O slots. And with its HP-UX 11 operating system, the HP j5600 offers full, 64-bit performance for your most compute-intensive applications.

The HP workstation HP j5600 delivers versatility and reliability to the most demanding work environments.

hp j5600 UNIX® workstation	feature	benefit	advantage
performance	2 PA-8600 RISC processors running at 552MHz	puts more compute and visualization power behind electronic and mechanical design applications; provides higher application performance at a lower price	holds the fastest microprocessor on the market
	1 to 8GB SDRAM capacity	supports analysis of larger models	delivers higher application performance
	1.5MB on-chip cache	enhances system performance with greater application speed and throughput	highly integrated microprocessor design minimizes system latency
	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
	2GB/s memory bandwidth	delivers optimal power for the best system performance	supports interactive work with large models
	64x64 operating system and microprocessor	improves large processing performance, such as full-chip simulation, logic synthesis and design rule checking	furnishes large address spaces
	2GB/s peak I/O performance	delivers excellent data access performance	provides fastest data transfer to I/O
	4 internal hot plug disk bays (292GB maximum)	supports faster disk access without having to power down to swap hard disks	provides large capacity for applications design data
graphics	hp *fxe* graphics accelerator	provides full-featured, 3D capability across all HP workstation platforms	enables universal access to all types of data across diverse, cross-functional teams
	optional hp *fx¹⁰ pro* graphics accelerator	supports faster visualization and interactive work with large 3D models	delivers fast 3D graphics performance for mechanical design work
investment protection	expansive tower with 7 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 j5600 technical specifications

central processor
type	PA-8600
clock frequency	552MHz
number of processors	2

primary cache (on chip)
total cache	1.5MB
instruction	0.5MB
data	1.0MB

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

main memory
bus bandwidth	2GB/sec
RAM type	120MHz SDRAM
capacity	1GB-8GB
memory slots	8

PCI slots (7 total)
PCI 2X	5 slots (64-bit, 5V)
PCI 4X	2 slots

internal storage devices
Ultra 2 SCSI LVD	80-pin SCA connector
	4 drives maximum
	hot pluggable (requires
	HP mirrordisk/ux)
	18GB (10K RPM)
	36GB (10K RPM)
	36GB (15K RPM)
	73GB (10K RPM)

removable media
CD-ROM ATAPI interface	internal
3.5 inch/1.44MB floppy drive	internal
DDS-3 tape drive	12-24GB internal

external storage
NSE SCSI (HD50)	1 port - up to 7 devices
Ultra2 SCSI LVD (HD68)nsity	1 port - up to 11 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, 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 Triniton CRT display

operating system
- hp-ux 11i TCOE (Technical Computing Operating Environment)
- hp-ux 11i MTOE (Minimum Technical Operating Environment)
- hp-ux 11.00 ACE9911
- hp-ux 10.20 ACE9912

environmental specifications
altitude	
operating	0-3000m (0-10,000 ft)
non-operating	0-4500m (0-15,000 ft)
temperature	
operating	0 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	34.5cm (13.6 inches)
depth	53.3cm (21 inches)

physical dimensions with rack kit
height	48.8cm (19.2 inches)
width	49.5cm (19.5 inches)
depth	80.0cm (31.5 inches)
rack orientation	vertical

net weight
minimum configuration	34 kg (74 lbs.)
fully loaded	40 kg (88 lbs.)

power requirements
input current	15 amps RMS max @ 100-120V
	7.5 amps RMS max @ 220-240V
line frequency	50-60Hz
maximum power input	1500 watts*

* maximum power – configuration will vary

hp graphics	hp fxe	hp fx[10] pro
graphics cards	4 max	3 max
max resolutions*	1600x1200	1600x1200
image planes/overlay	24/24DB**	24/24DB**
planes	8 overlay	8 overlay
z-buffer	24-bit HW	24-bit HW
stencil planes	4-bit HW	4-bit HW
Aapha planes	SW	8/8DB HW
texture memory	Std. 9.5MB	Std. 110MB***
color maps		
image planes	2 image	2 image
overlay planes	2 overlay	2 overlay

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

The HP workstation j5600 -- an innovative solution for making ideas real.

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