

HP 9000 Series 800 Model 825S Computer System

 **HEWLETT
PACKARD**

Quality server/multiuser performance
at affordable prices



You can take advantage of the powerful world of reduced complexity computers through the HP 9000 Model 825S, HP's entry-level system into the HP Precision Architecture Series 800 family.

As part of the Series 800, the Model 825S provides exceptional price/performance value through the powerful combination of the HP-UX standards-based operating system and Reduced Instruction Set Computing (RISC) architecture.

Though compact in size, the Model 825S delivers breakthrough performance in multiuser applications ranging from scientific and engineering analysis to online transaction processing. All at a very affordable price.

In addition to meeting today's needs, the Model 825S has been engineered to meet the future growth needs of your application. Expandability is readily available. A simple board exchange doubles performance. With the addition of an expander box, you can increase the number of terminals to 72.

Your investment in software is secure for the long term as well. The Model 825 is object code compatible with higher performance models within the Series 800.



*HP 9000 Series
800 Model 825S
is a highly reliable,
low cost, flexible
solution with proven
performance in a
variety of
application areas.
As part of the
HP Precision
Architecture Series
800 family, the
Model 825S
delivers superior
price/performance
for server and
multiuser systems.*

HP 9000 Series 800 Model 825S Superminicomputer

Enter the world of HP Precision Architecture.

Industry-leading price and performance. The HP Precision Architecture family delivers excellent performance at an industry-leading low cost. Designed for computationally intensive and multiuser computing environments, the Series 800 family of systems gives you the flexibility to choose the right system for the job – either routine or ambitious application programs.

As part of the HP Precision Architecture Series 800 family, the Model 825S provides reduced complexity design, a simplified instruction set implemented directly in the hardware. The result is fewer components required, less power consumed, and less heat generated. This means fewer failures, more uptime and substantial cost savings over the life of the system. Based on original purchase price and support costs over five years, the HP 9000 Series 800 can cost about 25 - 50 percent less than comparable competitive systems.

Compatible family of systems.

HP is the first major computer vendor to combine a 32-bit reduced complexity architecture and a real-time standards-based operating system in a scalable family of compatible computers.

From the entry-level Model 825S to the high-performance Model 855S, you can match performance to tasks assigned to small teams or hundreds of users.

Compatibility between the Series 800 systems assures that the same applications software, subsystems, peripherals and I/O cards may be used between the processors.

Industry standards to leverage investments. You can cut development costs while your investment keeps growing through HP's commitment to industry standards. Through standards, you can be assured your HP system is versatile, expandable and configurable, and that it can network with multi-vendor systems now and in the future.

Our HP Precision Architecture Series 800 family uses the standards-based HP-UX operating system and adheres to industry standards in networking, languages, graphics and databases.



High performance in a small package

Since the Model 825S utilizes HP's advanced NMOS III VLSI technology, all this performance comes to you in a package so small it can even fit on your desktop.


The Model 825S' desktop design is for use in an office or lab environment, saving you the additional expense of special flooring or air conditioning.

If you prefer, the Model 825S can also be mounted in a cabinet that takes just 2.4 square feet of floor space, or can be rack-mounted in standard EIA 19-inch racks.

Reliability for low cost of ownership

The built-in quality synonymous with HP and the reduced complexity design of the Series 800 provides exceptional reliability. The Model 825S' Mean-Time-Between-Failure (MTBF) is over 24,000 hours.

This high system availability



due to low failure maximizes the time the system is available to you for productive work. The Model 825S' proven reliability, together with low price, offer you significant low cost of ownership throughout the life of your system.

Versatility for your applications

The Model 825S' flexibility allows you to use it for a wide variety of applications.

For example, its powerful integer and floating point performance and low price make it very attractive for scientific, computation, and test applications.

Its native language support, low cost and effective support for multiple users make it ideally suited for project teams who develop software.

And, with its HP-UX operating system, real-time capabilities, flexibility and powerfail recovery feature, the Model 825S can perform well in communications, industrial automation, and real-time data acquisition applications.

Options for growth

The Model 825S gives you plenty of room to expand your horizons. With its I/O expansion, you have access to seven additional I/O ports to connect up to 72 terminals. As your requirements increase, you can purchase add-on memory in 8 or 16 Mbyte increments, up to a powerful 112 Mbytes. And you can take advantage of 9.1 GB of disc storage with HP Fiberoptic Link (HP-FL).

To let you connect to other vendors' systems, the Model 825S also provides industry-standard network services such as ARPA/Berkeley, IEEE 802.3 and NFS Services.

Upgrade opportunities for your initial investment

HP offers a variety of upgrade opportunities to help you maximize the value of your initial investment.

The Model 825S provides exceptional price/performance value for up to 72 users. Through a simple two-board exchange, you can double the performance to that of the Model 835S or the Model 835SE.

All of the Model 825S software is object-code compatible and easily transportable to the Model 835S and Model 835SE without additional cost.

Your investment in hardware is protected as well since you can use existing peripherals, cabling, power distribution and software without modifications.

HP is the leader in service and support

As with all HP products, the Model 825S gives you access to the added value of HP service and support. Over the past six years, HP has been rated the highest in service and support categories over other computer vendors in surveys by Datapro.

These calculations are the result of averaging six support categories: maintenance effectiveness, maintenance responsiveness, trouble shooting, documentation, education and software support.

Our worldwide local support teams are comprised of experienced HP hardware, software and sales engineers. One telephone call can produce assistance whenever and wherever it is needed - from 300 locations in 72 countries.

Specifications

Industry Standards	
Operating System Database	HP-UX HP's Allbase is based on ANSI and X/OPEN Structured Query Language (SQL)
Networking Graphics	ARPA/Berkeley, TCP/IP, IEEE 802.3, NFS Starbase Graphics Library (ANSI/ISO, VD-CGI), HP GKS (ANSI/ISO Graphical Kernel System)
Windowing Languages	X Window System FORTRAN '77, C, Pascal, COBOL/HP-UX, Ada
Capacity	
Memory	8 MB expandable to 112 MB ECC
Available I/O Channels	2 channels provide 14 slots
Terminals or Serial Ports	30 without expander, 72 with expander
Disk Memory	9.1 GB with HP-FL
Central Processor Unit	
Word Size	32-bit
Base Instruction Cycle Time	80 nanoseconds
Cache Size	16 KB
TLB Entry Size	2048
Central System Bus Speeds	24/21 (peak/average) MB/second
Channel I/O Speeds	8/5 (peak/average) MB/second
Floating Point Co-processor	
Floating Point Instructions	40
Floating Point Format	ANSI/IEEE 754-1985 standard
Instruction Set	
Maximum Number of Base Instructions	140
Number of 32-bit General Purpose Registers	32
Main Memory	
Virtual Memory Address Space	48-bit addressing (281,000 GB)
Physical Address Space	28-bit addressing (256 MB)
Operating Environment	
Temperature	
Operating	0 to 55° C (32 to 132° F)
Non-operating	-40 to 70° C (-40 to 158° F)
Relative Humidity	15 to 95% at 0 to 47 C Non condensing
Altitude	
Operating	to 4.6 Km (15,000 ft)
Non-operating	to 15.3 Km (50,000 ft)
Max. Heat Dissipation	200 BTU/hr
Electrical Specifications	
Line Voltage/Frequency	90 to 108 VAC at 48 to 66 Hz 108 to 132 VAC at 48 to 66 Hz 180 to 264 VAC at 48 to 66 Hz
Max. Power Required	600W
Battery Backup Time	15 min
Physical Characteristics	
Weight	23 Kg (51 lbs)
Dimensions	Height 234 mm (9.2 in) Width 325 mm (12.8 in) Depth 500 mm (19.7 in)

Technical data subject to change.

*HP-UX adheres to the UNIX System V Interface Definition, Issue 2; UNIX is a registered trademark of AT&T in the U.S. and other countries.

For more information on how the HP 9000 Model 825S and our other HP-UX systems can give you access to high performance for low cost, simply call your local Hewlett-Packard sales office listed in your telephone directory. Or call one of the HP sales offices listed below.

United States:

Hewlett-Packard Company
4 Choke Cherry Road
Rockville, MD 20850
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(312) 255-9800

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