

# STAR COMPUTERS - SERVERS



## The New Intel® Pentium® 4 Processor with HT Technology

Hyper-Threading Technology enables thread-level parallelism (TLP) by duplicating the architectural state on each processor, while sharing one set of processor execution resources. When scheduling threads, the operating system treats the two distinct architectural

states as separate "logical" processors. This allows multiprocessor capable software to run unmodified on twice as many logical processors. While Hyper-Threading Technology will not provide the level of performance scaling achieved by adding a second processor, benchmark tests show some server applications can experience 30 percent gain in performance. Benefits of Hyper-Threading Technology include:

**High processor utilization rates:** One processor with two architectural states enables the processor to more efficiently utilize execution resources. Because the two threads share one set of execution resources, the second thread can use resources that would be otherwise idle if only one thread was executing. The result is an increased utilization of the execution resources within each physical processor package.

**Higher performance for properly optimized software:** Greater throughput is achieved when software is multithreaded in a way that allows different threads to tap different processor resources in parallel. For example, integer operations are scheduled on one logical processor while floating-point computations occur on the other.

**Full backward compatibility:** Virtually all multiprocessor-aware operating systems and multithreaded applications benefit from Hyper-Threading Technology. Software that lacks multiprocessor capability is unaffected by Hyper-Threading Technology.

## Reliant

### Features Powerful Intel Pentium 4 Processor HT Technology



*The Reliant is a classroom server which easily handles up to 30 clients. Plenty of room for multiple CD drives, hard drives, etc. Economically priced, the Reliant allows the flexibility of local area networks or labs.*

	FEATURES	STANDARD	OPTIONS
<b>CHASSIS &amp; POWER SUPPLY</b>	Full Size ATX 350 watt	16.5"D x 7.5"W x 24.5"H 20.4"Dx14.8"Wx18"H.	6-5.25" and 4-3.5" Drive bays 6-3.5" Bays, 8-5.25" Bays
<b>MOTHERBOARD</b>	INTEL S875WP1 SVERBOARD W/DUAL ATA, DUAL SERIAL ATA RAID, 10/100 AND 1GB NIC, UPTO 4GB DDR 400, 400/533/800FSB		
<b>PROCESSOR</b>	Intel Processor	Pentium 4 HT 2.4 GHz W/512K CACHE 800fsb	Up to 3.2 GHz
<b>MEMORY</b>	ECC DDR DIMM 400MHz	512 MB	Up to 4 GB
<b>HARDDRIVE</b>	IDE Western Digital	40 GB UDMA HD 7200RPM	Up to 200 GB
<b>CD-ROM</b>	CD ROM	52 Speed	DVD
<b>VIDEO</b>	On motherboard	AGP 4x w/8MB	
<b>AUDIO</b>	On motherboard	AC'97 2.1 Compliant	None
<b>NETWORK</b>	On motherboard	None	None
<b>OS</b>	Installed incl. books and CD's	none	WinNT (WIN2000)
<b>KEYBD, MOUSE</b>	Keytronic 104 key keyboard, PS2 Wheel Mouse, mouse pad		

## Reliant 2 (2K / 4U)

### Powerful, Dual Intel Xeon Processor Server



*The Reliant 2 (2K / 4U) System Server is powered by dual Xeon processors and has large storage capacity. Options include RAID assemblies as well as redundant power supplies.*

Specifications subject to change without notice.

	FEATURES	STANDARD	OPTIONS
<b>CHASSIS &amp; POWER SUPPLY</b>	Floor ATX 400W 24-8 PS	20.4Dx14.8Wx18H. 6-3.5" Bays, 8-5.25" Bays	Redundant 400 Watt PS
<b>MOTHERBOARD</b>	INTEL SE7500CW2 SERVER BOARD W/VID, 2 NICs DUAL ATA RAID		
<b>PROCESSORS</b>	Intel Processor	2 XEON Processors 1.8 GHz, 400MHz w/512K cache FCBGA	Up to 2- 3 GHz. Xenon
<b>MEMORY</b>	DDR DIMM 266MHz	512MB ECC DDR DIMM 266MHz	1GB to 4GB
<b>HARDDRIVE</b>	UDMA HD 7200 RPM	60 GB	18GB, 18GB or 36GB RAID
<b>CD-ROM</b>	52 Speed	52 Speed	Up to 8 CD Roms or DVDs
<b>VIDEO</b>	Integrated on the motherboard	AGP 4x w/4MB	none
<b>AUDIO</b>	Integrated on the motherboard	Sound Blaster Compatible	none
<b>NETWORK</b>	Integrated on the motherboard	100 Base T Ethernet	2nd Intel 8460 or 8470
<b>OS</b>	Installed incl. books and CD's	none	WIN2000 Server, Back Office
<b>KEYBD, MOUSE</b>	Keytronic 104 key keyboard, WHEEL MOUSE OPTICAL PS2 (LOGITECH), mouse pad		