PowerLeap
Upgrading the World's Computers

PL-P3/SMP

Slot 1 Server/Workstation CPU Upgrade Adapter

The PowerLeap PL-P3/SMP™ provides an economical CPU upgrade path for dual-CPU Slot 1 (Pentium II™- and Pentium III™-based) servers/workstations. With the innovative PL-P3/SMP, you can obtain significantly faster performance (up to 1.4GHz) from your server/workstation by upgrading to Intel Pentium III-S™ ("Tualatin" core, 512KB L2 cache) processors. The PL-P3/SMP™ also supports the Intel Pentium III 1.13/1.2GHz and Celeron 1.0A~1.4GHz CPU for single-CPU operation.

Benefits

The PowerLeap server upgrade products, fully tested and certified by the engineering quality control specialists, would extend the lives of your mission-critical and application server products and boost the server performance by more than 170% due to faster CPUs. The PowerLeap product line also provides an option to expand the internal memory that is compatible with Dell, IBM and Compaq/HP machines. The PowerLeap solution is guaranteed as the most cost-effective alternative to increase the performance of your servers/workstations without re-architecting your network. Every PowerLeap server upgrade product is backed by our 100% satisfaction-guarantee and "3 year" warranty.

Features

- PowerLeap's patented[1] Independent Power Source (IPS™) technology integrated on board. Allows support of current processors, bypassing the motherboard's original voltage regulator (VRM).
- Supports the latest 0.13-micron Intel "Tualatin" processors, including the 1.13, 1.26, and 1.4GHz Pentium III-S with 512KB L2 cache/133FSB; 1.0A, 1.1A, 1.2, 1.3, and 1.4GHz Celeron with 256KB L2 cache/100FSB (in single mode only); as well as the older PIII "Coppermine" 1.0 and 1.1GHz PIII (100FSB/256K L2 cache).
- Supports both 100 and 133MHz frontside bus (FSB) speeds.
- Precise automatic control of core voltage settings (auto-setting of V/Core) and supports up to 2.0 volts maximum. Specific support for the "Tualatin" 1.45, 1.475, and 1.5 V/Core requirement even on motherboards that don't natively support these voltages.
- Integrated high-capacity switching Voltage Regulator Module (VRM), meeting VRM specifications 8.5, 8.4, 8.3, 8.2, and 8.1.
- Integrated top-quality components and board design to meet the rigorous demands of mission-critical server and workstation uptime reliability requirements.
- Supports dual processing (SMP) for the Pentium III-S™ (server) processors.

[1] US Patents 5,919,259 and 5,938,769; Japan Patent 3042946; and Taiwan Patent 142112.

- Offers many built-in Auto-Monitor (DMI compliant) and Auto-Protect features for server environments.
- Self-Healing technology allows for fast reset in the event of power failure or power spike.
- Six-layer PCB design offers outstanding signal quality and low heat.
- The complete kit includes the PowerLeap adapter(s), selected CPU(s), PowerLeap *Cache Configuration Utility*[2], a low-profile copper heatsink/fan (dual ball-bearing), customized power supply cable, Ceramique thermal compound, a removable retention cartridge, cable, jumper, and a PowerLeap Server Kit Warranty Registration Card.

Please specify your computer brand and model number when ordering.

Packaging

Currently, the PL-P3/SMP™ is sold with CPUs and heatsink/fan already installed and fully tested. For dual processing, the PL-P3/SMP™ is available with Intel Pentium III-S™ 1.4/1.26/1.13 GHz CPUs. As a single processor upgrade solution, the PL-P3/SMP™ is available with an Intel Celeron 1.4GHz CPU.

Compatibility List

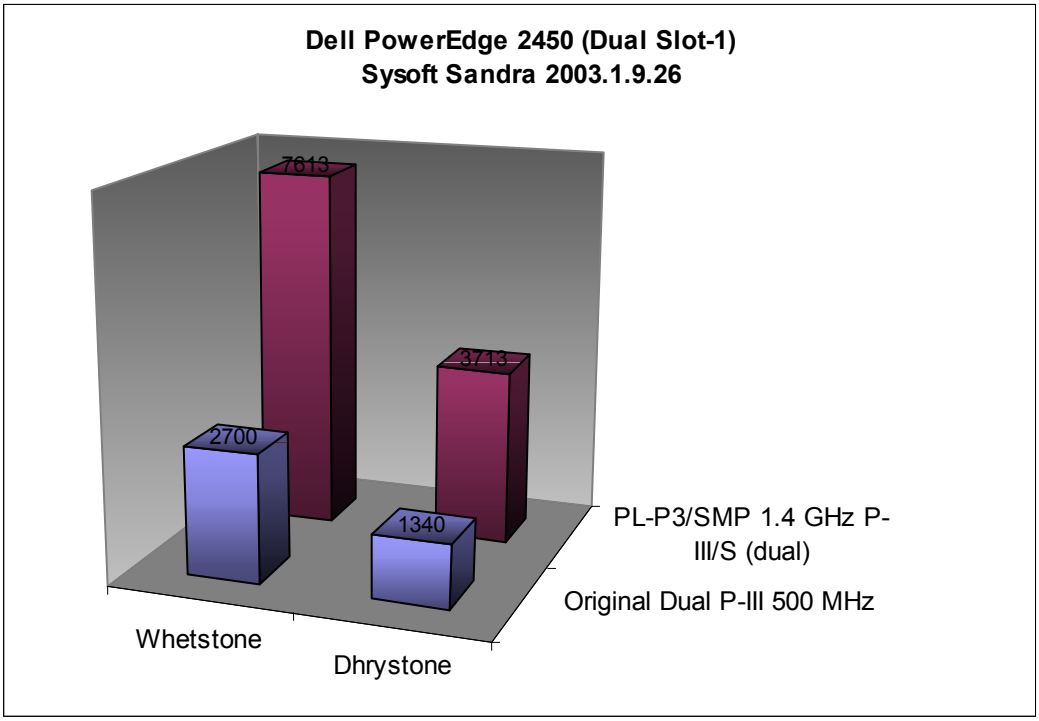
IBM Netfinity Servers	**PowerLeap Upgrade**	**Maximum Speed**
IBM Netfinity 5000 and 5100	PL-P3SMP	Single or dual 1.4 GHz Pentium-III/S with 512K L2 cache.
Dell PowerEdge Servers	**PowerLeap Upgrade**	**Maximum Speed**
Dell PowerEdge 1300	PL-P3SMP	Single or dual 1.4 GHz Pentium-III/S with 512K L2 cache. Note: CPUs run at 1050 MHz due to 100 MHz FSB.
Dell PowerEdge 2300	PL-P3SMP	Single or dual 1.4 GHz Pentium-III/S with 512K L2 cache.
Dell PowerEdge 2400	PL-P3SMP	Single or dual 1.4 GHz Pentium-III/S with 512K L2 cache.
Dell PowerEdge 2450	PL-P3SMP (Custom Power Cable Req'd)	Single or dual 1.4 GHz Pentium-III/S with 512K L2 cache.
Dell Precision Workstation	**PowerLeap Upgrade**	**Maximum Speed**
Dell Precision Workstation 220	PL-P3SMP	Single or dual 1.4 GHz Pentium-III/S with 512K L2 cache.

Don't see your model on this short compatibility list? Call us at 250-890-0707 to speak with an upgrade specialist today!

Performance Boost and Benchmark

[2] This utility is useful if your old BIOS can't enable the upgrade CPU's L2 cache. (To determine if the L2 cache is enabled, use PowerLeap's *Quick CPU Finder* or a software utility such as CPU-Z or WCPUID.)

The following benchmark demonstrates a performance boost with a Dell PowerEdge 2450 server. The chart shows that the server performance has improved by more than 170% with the PowerLeap PL-P3/SMP™ kit.



Warranty

A PowerLeap Server Kit Warranty Registration Card (included with the product kit) must be completed, signed, dated and mailed back to PowerLeap in order to activate the product warranty. For your convenience, the PowerLeap Server Kit Warranty Registration Card can be completed on-line (at the Powerleap US website at www.powerleap.com/server/warranty) to activate your warranty. PowerLeap warrants this product to be free from manufacturing defect for a period of 3 years commensurate with your original purchase date. Please note that the warranty coverage will not become effective until you have successfully registered this warranty information with PowerLeap LLC based in the USA. In the unlikely event that any processor in a Dual kit fails, PowerLeap guarantees that both processors in the repair or replacement kit will be matched.

Contact Information

Please contact us at 1-250-890-0707 (9:00 AM to 5:00 PM PST) to speak with a sales representative. You can also contact us via e-mail: sales@powerleap.ca. Please visit us on-line at www.powerleap.ca.