Lancelot 2842 Specifications.

**Motherboard:**
Intel Mukilteo Pentium D serverboard, ATX form factor

**CPU:**
Intel® Pentium® D processor, 2M+2M full speed L2 cache, 800MHz Quad Pumped FSB architecture, Socket 775, .065 micron, **dual core**

Intel® Pentium® Extreme Edition processor, 2M+2M full speed L2 cache, **1066Mhz** FSB, NetBurst micro-architecture, Socket 775, .09 micron, HyperThreading (SMT), **dual core**

**Chipset:**
Intel E7230 server chipset with PXH-V I/O Bridge and ICH7R SouthBridge
Single channel UltraDMA/100 bus mastering IDE controller
Four channel SATAII controller on ICH7R South Bridge

**Memory Subsystem:**
Four DIMM banks supporting up to 8GB of DDR2-667 unbuffered SDRAM, non-ECC or ECC channel operation

Note: To enable dual channel memory (128-bit), modules must be populated in pairs.

**Graphic Subsystem:**
Integrated ATI Rage XL graphic accelerator with 8MB

**Hard Disk Subsystem:**
(2842-S/R) Up to six **Ultra 320/m** hard drives in capacity from 36GB to 300GB. These configured as standalone unit or disk array(s), level 0, 1, 5, 10, hotspare supported

(2842-T) Up to four **Serial ATA** hard drives in capacity from 80GB to 500GB. These drives configured as standalone unit or disk array(s) using the Linux software RAID

(2842-TR2) Up to six **Serial ATA** hard drives in capacity from 80GB to 500GB. These drives configured as standalone unit or disk array(s) using hardware RAID (level 0, 1, 5, 10, 64-bit/133mhz PCI-X supported)

**ATA Subsystem:**
Integrated single channel Ultra ATA/100 controller

**SCSI Subsystem:**
(2842-SR) LSI Logic **MegaRAID 320-1LP** single channel Ultra 320/m SCSI RAID controller 64MB ECC cache, optional **Battery Backup Unit (BBU)**

(2842-S) Integrated Adaptec 7901W single channel Ultra 320/m SCSI controller

(2842-TR2) 3Ware Escalade 9550SX-8LP **Serial ATA II** RAID controller, RAID level 0, 1, 64-bit/133mhz PCI-X, 256MB ECC cache, optional **Battery Backup Unit (BBU)**

**CD-ROM Subsystem:**
(2842-S/T) 52X Ultra DMA/33 CDROM. Note: 24X slim CDROM can be used in order to provide 5.25in expansion drive bay for other peripheral such as tape drive or additional optical drive

(2842-SR/TR2) 24X Ultra DMA/33 slim CDROM
2nd CDRW/DVD-ROM/DVD+RW can be added via the slim drive bay (2842-S/T) or regular bay (2842-SR/TR2)

**Sound Subsystem:**
None

**Network Subsystem:**
Integrated Intel 82573V dual-port PCI-Express Gigabit Ethernet controller, 1000Base-Tx
Optional Intelligent Platform Management Interface (IPMI 2.0) board

**System Slots:** (low profile card only)
Two (2) 3.3V1 64-bit/133MHz bus mastering, full length PCI-X slot
Two (2) 3.3V1 64-bit/100MHz bus mastering, full length PCI-X slot
One (1) PCI Express x4 slot
One (1) IPMI 2.0 slot

**System I/O:**
One (1) RS-232C 16550 serial port
Two (2) USB 2.0 ports
One (1) PS/2 Mini DIN keyboard port
One (1) PS/2 Mini DIN mouse port
One (1) 15-pin VGA port
Two (2) RJ-45 Ethernet ports

**Floppy Drive:**
1.44MB floppy drive

**Mouse:**
Optional

**Keyboard:**
Optional

**Chassis:**
ASL 2U Rack mount chassis, FCC Class B
Copper-based active CPU heatsink
(2842-S/T) 550W fixed EPS12V power supply
(2842-SR/TR2) 500W hotswap and redundant power supply
Chassis and CPU overheat alarm with front LED indication
Dimensions: 3.5" (H) x 16.7" (W) x 26" (D)
One (1) accessible slim size CDROM bay
One (1) accessible floppy bay
One (1) accessible 5.25" drive bay
(2842-S/SR) Ultra 320/m SCA backplane
● 1 SCSI channel of 6 drives
● SAF-TE optional
● Six (6) hotswap SCA-2 1" hard drive bays
(2842-T/TR2) Serial ATA II backplane
● Six (6) coldswap/hotswap Serial ATA drive bays on 2842-TR2
● Four (4) coldswap/hotswap Serial ATA drive bays on 2842-T
Four (4) 8cm hotswap fans
Sliding rails kit with telco mount support

**Preinstalled Software:**
Red Hat Linux with ASL optimized kernel, 32-bit operating system

**Note:** Red Hat has announced major changes to the boxed product. Please read.

Developers: To maximize the potential of the Xeon architecture, ASL recommends using C/C++ and/or Fortran compilers. These compilers will generate codes that are optimized for IV streaming SIMD extensions and new instructions. For more detail on the compilers,

1: Slot is incompatible with 5V PCI add-on card.

Phone:
