



# OCIPUG Hardware SIG

November 9, 2004

# OCIPUG Hardware SIG

- Agenda – November 9, 2004
  - 7:00 – 7:05 Administration
  - 7:05 – 8:30 Featured Topic: Network Hardware: How It Works – Part 2 of 2 (Steve Schiffman)
  - 8:30 – 9:00 Hardware News
  - 9:00 – 9:10 Break
  - 9:10 – 9:55 Hardware Submission and Random Access (Q&A)
  - 9:55 – 10:00 Recap, Preview, and Close

# OCIPUG Hardware SIG

## ● Administration

- Welcome! Please Sign In.
- What the SIG is...and is not.
  - Is - a resource for computer users and potential computer users
  - Is NOT – a cheap way to get your computer built or repaired
- Logs – Random Access & Hardware Submission (First Come...)
- Hardware Submission & RELEASE

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- Administration (continued):
  - Presentation materials will be posted at:  
[http://www.edscustomcomputers.com/  
welcome\\_to\\_the\\_ocipug\\_hardware\\_s1.htm](http://www.edscustomcomputers.com/welcome_to_the_ocipug_hardware_s1.htm)
  - Prior presentation materials also posted.

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- Network Hardware: How It Works – Part 2 of 2  
Presented by Steve Schiffman

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- Hardware News

- Processors

- AMD released the Athlon 64 4000+ (2.4GHz) and the Athlon 64 FX-55 (2.6GHz) – both are 939-pin with 1MB L2 cache (exclusive); \$729 and \$827, respectively (1K lots). Simple line extensions.
- Intel released a Pentium 4 Extreme Edition at 3.46GHz. First Pentium 4 processor with 1066MHz front side bus (FSB); \$999 (1K lots).

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- Hardware News (continued)
  - Processors (continued)
    - Intel release six Itanium 2 processors:
      - 1.3GHz low voltage (LV), 3MB L3 cache, \$530 (1K lots)
      - 1.6GHz DP, 3MB L3 cache, 400MHz FSB, \$851 (1K lots)
      - 1.6GHz DP, 3MB L3 cache, 533MHz FSB, \$1172 (1K lots)
      - 1.5GHz MP, 4MB L3 cache, \$910 (1K lots)
      - 1.6GHz MP, 6MB L3 cache, \$1980 (1K lots)
      - 1.6GHz MP, 9MB L3 cache, \$4226 (1K lots)

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- Hardware News (continued)
  - Core Logic (chipsets)
    - ATI released the RX330 Northbridge for Intel Pentium 4, 800MHz FSB processors – supports dual-channel DDR400 RAM, discrete AGP 8X graphics.
    - ATI released the RADEON XPRESS 200 series for Intel Pentium 4 processors:
      - RADEON XPRESS 200 (northbridge) – integrated X300 PCIe graphics, UMA or LFB to 128MB, supports DX9; dual-channel memory support
      - RADEON XPRESS 200P (northbridge) – discrete PCIe graphics; dual-channel memory support
      - S400 (southbridge) – 4 SATA (w/ RAID), 4 PATA, 8 USB, AC97 audio, no LAN MAC.

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- Hardware News (continued)
  - Core Logic (chipsets)(continued)
    - Intel released the “925XE Express” (82925XE) MCH (memory controller hub) for Pentium 4 and Pentium 4 Extreme Edition processors in the gamer and enthusiast segments – adds support for 1066MHz FSB processors to the previously announced 925X Express MCH.
    - NVIDIA announced the nForce4 series of MCPs (media and communications processors) for AMD Athlon 64, Athlon 64 FX, and Sempron (754 & 939-pin) processors – nForce4, nForce4 Ultra, and nForce4 SLI (scalable link interface). Single chip, PCI Express-only solutions – include support for SATA-II, GbE MAC.

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- Hardware News (continued)
  - System RAM – nothing new
  - Motherboards
    - ASUS, Gigabyte, Intel, and MSI released Intel 925XE-based boards.
    - Gigabyte announced the GA-8TRX330-L for Intel 478-pin, 800MHz FSB, Pentium 4s – based on the ATI RX330 + SB300 chipset (discrete graphics).
    - Gigabyte announced the GA-K8NXP-9 for AMD 939-pin Athlon 64 and Athlon 64 FX processors – based on NVIDIA nForce4 Ultra chipset.

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- Hardware News (continued)
  - Motherboards (continued)
    - MSI announced the K8N Diamond for AMD 939-pin Athlon 64 and Athlon 64 FX processors – based on the NVIDIA nForce4 SLI chipset.
  - Graphics processors & cards
    - ATI announced the FireMV line of 2D graphic accelerators (cards) – 64-256MB RAM, support for up to 4 monitors, low-profile PC I or PCI Express x1, base GPU not identified.
    - NVIDIA announced the GeForce 6200 GPU – PCI Express for the Value segment. Gigabyte released card.

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- Hardware News (continued)
  - Hard Drives
    - Hitachi released the Ultrastar 15K147 – 15K rpm, up to 147GB, 16MB cache, Ultra 320 SCSI or 2Gb FCAL, max 1129Mb/sec internal transfer rate (world's fastest).
    - Seagate announced the addition of SATA II versions to NL35 series (enterprise/nearline) – 250 and 400GB, 7200 rpm, 16MB cache, 1 million hours MTBF; first shipments in Q1'05 (no specs available).
  - Hard Drive Controllers – nothing new

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- Hardware News (continued)
  - Other Drives
    - LiteOn released the SOHW-1633SX external (USB) and SOHW-1653S internal (ATAPI) DVD+R DL drives – 2.4X and 4X DL recording, respectively.
  - Sound processors & cards
    - Creative Labs announced the “Limited Edition Sound Blaster Audigy 4 Pro” – 113 db SNR; THX certified; card + external “hub” + s/w bundle, \$300.
  - Modems & NICs – nothing new.
  - Chassis & power supplies – nothing new.

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- Break

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- Hardware Submission & Random Access (Q&A)
  - Hardware Submission – Log and Release
  - Random Access - Log

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- Recap, Preview, and Close
  - Recap
  - Preview
    - Featured Topic for December 14, 2004:  
CPUs: 2004-5 Update
  - Close (please police up the area)