

# OCIPUG Hardware SIG



October 12, 2004

# OCIPUG Hardware SIG

- Agenda – October 12, 2004
  - 7:00 – 7:05 Administration
  - 7:05 – 8:30 Featured Topic: Network Hardware: How It Works – Part 1 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 1 of 2  
Presented by Steve Schiffman

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- Hardware News

- Processors

- Intel released the Celeron D 340 (Prescott 90nm core) – 2.93GHz, 533MHz FSB, 256K L2. Available in both 478-pin  $\mu$ PGA and LGA775 packaging. The LGA775 model includes “execute disable bit” – can prevent certain classes of malicious “buffer overflow” attacks when combined with a supporting operating system (XP/SP2).
- Intel released LGA775 versions of the previously released Celeron D 325, 330, and 335. Adds “execute disable bit”.

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- Hardware News (continued)
  - Core Logic (chipsets)
    - Intel released the “910GL Express” chipset (82910GL GMCH/Graphics Northbridge for use w/ the previously announced Intel ICH6 series Southbridge) for Pentium 4 and Celeron processors in the Value segment – support for 533MHz FSB processors; integrated graphics ONLY (Intel Graphics Media Accelerator 900 only w/ no support for an AGP or PCIe graphics card); support for DDR ONLY (no DDR2 support).

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- Hardware News (continued)
  - Core Logic (chipsets) (continued)
    - VIA released the K8T890 Northbridge for AMD Athlon 64, Athlon 64FX, Opteron, and 754-pin Sempron processors – 2000MT/s (1GHz) HyperTransport system bus; support for PCIe x16 graphics (or dual PCIe x8 using “VIA DualGFX Express”); direct support for 4 PCIe x1 slots (in addition to those supported by the Southbridge). AGP support not included! [Press release, spec, and comparison matrix out of sync. Plus VT8251 shown but no announcement or spec.]
  - System RAM – nothing new

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- Hardware News (continued)
  - Motherboards
    - Gigabyte announced the GA-8TRS350MT for 478-pin Pentium 4s – based on the ATI R9100 Pro + SB300 chipset (RADEON 9200-class integrated graphics).
  - Graphics processors & cards
    - ATI announced the All-in-Wonder X600 Pro VPU – first AIW using PCIe; first cards in Europe through partners. No specs posted.

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- Hardware News (continued)
  - Graphics processors & cards (continued)
    - ATI released the RADEON X700 family of VPU's – X700, X700 PRO, and X700 XT. PCIe x16, mid-range gamer (cards to \$199 MSRP); cards to be released by ATI and partners – PRO-class released by ASUS, ATI, and others.
    - S3 OmniChrome (S4)-based card announced by 3D-Club (Europe) – the first card based on this GPU; AGP 8X, 128MB; mid-range gamer.
    - XGI announced own-brand cards – AGP 8X; low end and mid-range announced; no dual processor. No card specs.

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- Hardware News (continued)
  - Hard Drives
    - Iomega announces new external hard drives – 120-250GB drives w/ USB 2.0, combo USB 2.0/1394a, and combo USB 2.0/1394a/1394b (1394b = 800Mb/s) interfaces; also Value line from 80-250GB. Specs not posted.
    - Maxtor announced “SATA Ultra16” retail kits – 250 & 300GB, 7200 rpm, 16MB cache. Internal xfer not posted.
    - Maxtor announced the OneTouch II series of external drives – 250 & 300GB, 16MB cache, combo FireWire (IEEE-1394) and USB 2.0 interface.

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- Hardware News (continued)
  - Hard Drive Controllers
    - Promise announced “enhanced” SATA RAID 2-port (FastTrak TX 2200) and 4-port (FastTrak 4200) PCI cards – “enhanced” means added native command queuing (NCQ); support RAID 0, 1, and 0+1.
  - Other Drives
    - Iomega released two DVD-DL DVD burners – DL speed UKN; 16X DVD+/-RW; both are USB 2.0; one (QuikTouch) with and one without integrated video capture card; MSRP \$299 and \$199, respectively. Detailed spec not posted.

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- Hardware News (continued)
  - Other Drives (continued)
    - Plexor released the PX-716A (ATAPI) and PX-716UF (USB 2.0/1394) DVD-DL DVD burner – 16(4)/8(4)/16/48/24/48.
    - Teac released the DV-W516G DVD-DL DVD burner – 16/8 DVD+/-RW (DL speed UKN); ATAPI; spec not posted.
    - Toshiba released the SD-R5372 DVD-DL burner – 5X DVD-DL (industry's fastest), else 16(12)/4/16/48/24/48; ATAPI.

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- Hardware News (continued)
  - Sound processors & cards – nothing new.
  - Modems & NICs – nothing new.
  - Chassis & power supplies
    - Antec released the NeoPower 480 power supply – all cables except main power are detachable; PCIe graphics and SATA cables included; 480W.

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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 November 9, 2004:  
Network Hardware: How It Works – Part 2 of 2  
(Steve Schiffman)
  - Close (please police up the area)