Eurocom’s new Mobile Workstations

Racer 2.0
Neptune 2.0
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New Models

RELEASE DATE: April 29th 2012

Racer 2.0

P150EM – User-configurable backlit keyboard
P151EM Black Edition – No keyboard backlighting

Neptune 2.0

P170EM – User configurable backlit keyboard
P170EM3 – NVIDIA 3D ready – backlit keyboard
New Features

Intel Chief River Platform

- Intel® Ivy Bridge processors – up to 3920XM
- Mobile Intel® HM77 Express chipset
- Supports NVIDIA® Optimus Switchable GPU technology

64GB RAM Support

- 4 RAM sockets – dual channel DDR3 1333MHz/1600MHz
- 2 DIMMS per channel with quad core processors only

Backlit keyboards

- Controllable via Control Center software
- Seven selectable colours
- Multiple lighting options - e.g. wave pattern, breathing, flashing
New Features

**mSATA support**

- P150EM – mSATA 6Gbp/s
- P170EM – mSATA 3Gbp/s

**UEFI BIOS** – Supports extensions to enable new Intel technologies

- Intel® Rapid Start
- Intel® Anti-Theft
- Intel® Smart Response
- Intel® Rapid Storage
- Intel® Identity Protection
Key Technologies – Ivy Bridge processors

**Ivy Bridge**

- 22nm evolution of acclaimed Sandy Bridge micro-architecture
- First processors to use Intel’s new tri-gate(3D) transistors
- 20% performance increase over Sandy Bridge

**Intel® HD 4000 Graphics**

- 60% performance increase over HD 3000 series
- DirectX 11 support
- Dynamic sharing with system RAM – up to 1.7GB
Key Technologies – Ivy Bridge processors

**Tri-gate (3D) transistors**

New Intel® technology, developed for 22nm Ivy Bridge processors

- Allows for increased transistor density
- Faster on/off switch states
- Improved current control (less drain)

**Net benefit**

- Increased performance
- Improved energy efficiency
Key Technologies – Chipset

**Mobile Intel® HM77 Express Chipset** – codename Panther Point

- Ivy Bridge & Sandy Bridge processor support
- UEFI
- Native USB 3.0 support
- Two SATA 6Gbp/s ports
- mSATA support
- NVIDIA Optimus Switchable GPU technology
Key Technologies – Chipset

**Intel® Rapid Start Technology**

Resume system state in 5-6 seconds from *hibernate*
Remembers computer state with zero power
Requires SSD

**Intel® Rapid Storage & Smart Response Technology**

Permits use of an SSD drive as a cache drive
Delivers SSD-like performance with capacity of HDD
Ideal for use with a factory option mSATA drive
Key Technologies – Chipset

Intel® Anti-Theft Technology

Remote-disable over 3G, regardless of OS state or Internet connection
GPS tracking with 3G module
Failure to check-in or multiple failed logins can trigger lockdown

Intel® Identity Protection Technology

Protects against identity theft
Uses hardware tokens to authenticate access to online accounts
Can be done in parallel with most existing two-factor authentication solutions
Key Technologies – VGA

Support for NVIDIA® 600 series (Kepler) and AMD® Radeon Mobility HD7000 series (Wimbledon)
- MXM 3.0B standard
- 100W max – planned support for 130W

Base configuration includes NVIDIA GTX 670M 1.5GB GDDR5 VGA card
**Key Technologies – NVIDIA® Optimus**

**NVIDIA® Optimus Switchable GPU Technology**

Seamless automatic switching between CPU IGP and MXM 3.0b GPU
Performance of GPU only when required

**Net benefits**

- Maximum battery life
- Reduced AC energy usage
- Reduced heat generation
- Quieter operation

Image courtesy of NVIDIA®
Key Technologies - mSATA

mSATA

Small footprint, SATA SSD
Available as a factory option – Intel 310 series (40GB/80GB)
Ready for Intel® Rapid Start – fast system resume
Ready for Intel® Smart Response – SSD caching

Net benefits
Excellent OS or application drive
Performance boost when used as HDD cache
Key Technologies – Backlit Keyboard

Backlit Keyboard
Adjustable brightness
Seven selectable colours & patterns
Assign different colours to sections of keyboard
User-friendly interface
Hot-keys also available
Design Principles

Long lifespan

Fully upgradeable

Configurable for variety of roles

Heavy-duty - designed for occasional abuse

Easy deployment – single image across all units

Low TCO (hardware, software & support costs)
Product Roles

1. High performance Mobile Workstation
   Quad core Intel Core i7 processors
   Support for multiple hard drives

2. Portable Gaming notebook
   Up to NVIDIA® GTX 680M or AMD Radeon Mobility 7970M
   Up to Intel Core™ i7 3920XM processor

3. Portable Engineering Workstation (Quadro VGA)
   Up to NVIDIA® Quadro 5010M
   Up to 64GB RAM
Ports List

3x USB 3.0 (1x powered USB – AC/DC)
1x USB 2.0 port
1x eSATAp port (USB 3.0 Combo – powered)
1x Mini IEEE 1394a port
1x DisplayPort 1.1a
1x DVI-I port (Single Link)
1x HDMI 1.4a output port (w/ HDCP)
1x Headphone jack
1x S/PDIF output jack
1x Line-in jack
1x RJ-45 LAN port
1x DC-in jack