ATI Mobility FireGL workstation graphics technology delivers:

- Industry leading price-performance based on a scalable parallel processing architecture
- Unified drivers for both mobile and desktop workstations
- Optimized and certified for Professional CAD and DCC applications
- Low power consumption for extended battery life and cool operation for greater reliability
- Support for dual monitor output with notebook LCD and stand alone displays

**The Power of Desktop Workstation Graphics in a Notebook**

ATI’s award-winning Mobility FireGL™ workstation graphics technology enables engineers, animators, and designers to run professional 3D CAD and DCC applications whenever and wherever they go. ATI’s innovative Mobility FireGL solutions have been integrated into mobile workstations by leading manufacturers including Dell, HP, IBM, and Fujitsu Siemens. Get the graphics power, performance, and features of a traditional workstation packed inside a notebook driven by Mobility FireGL technology.
**ATI Mobility FireGL™ Workstation Graphics Accelerators**

<table>
<thead>
<tr>
<th>Mobility FireGL Technology</th>
<th>mobility FireGL V3100</th>
<th>Mobility FireGL V3200</th>
<th>Mobility FireGL V5000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Memory Size</strong></td>
<td>128 MB</td>
<td>128 MB</td>
<td>128 MB</td>
</tr>
<tr>
<td><strong>Memory Interface</strong></td>
<td>128-bit</td>
<td>128-bit</td>
<td>256-bit</td>
</tr>
<tr>
<td><strong>Memory Bandwidth</strong></td>
<td>6.4 GB/sec</td>
<td>12.8 GB/sec</td>
<td>13.6 GB/sec</td>
</tr>
<tr>
<td><strong>Geometry Engines</strong></td>
<td>2</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td><strong>Pixel Pipelines</strong></td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td><strong>Dual Display</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Maximum Resolution</strong></td>
<td>Up to 1600 x 1200</td>
<td>Up to 1600 x 1200</td>
<td>Up to 1600 x 1200</td>
</tr>
<tr>
<td><strong>Low Power Consumption</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Available Models</strong></td>
<td>Dell Precision M20</td>
<td>IBM ThinkPad T43p</td>
<td>HP nw8240</td>
</tr>
</tbody>
</table>

* Depends on OEM Notebook Specs.

**Mobility FireGL Graphics Technology**
- Powered by ATI’s scalable Mobility FireGL Workstation Graphics Processing Units (GPU)
- Up to 128-bit high bandwidth memory architecture
- Up to 6 parallel geometry engines
- Up to 8 parallel pixel pipelines
- 128-bit full floating point precision
- 32-bits per RGBA component displays beyond 16.7M colors

**BUS Technology**
- PCI Express® x16 native support

**APIs and Operating Systems**
- OpenGL® 1.5 + extensions
- OpenGL Shading Language
- Microsoft® DirectX® 9.0
- DX9 HLSL
- Windows® XP/Windows XP64/Windows 2000
- Linux® 32/Linux 64

**Display Support**
- Maximum resolution of 1600x1200 per display (dual display mode)
- Independent resolution and refresh rate selection for any two connected displays

**Graphics Features**
Hardware acceleration of the following:
- Anti-aliased points and lines or full scene anti-aliasing (2X, 4X, 6X)
- 3D lines and triangles
- Stipple points
- Two-sided lighting
- Up to 8 light sources
- Directional and local lighting
- OpenGL overlay planes
- Occlusion culling
- 6 user defined clip planes
- OpenGL polymode functions
- 32-bit (24+8-bit stencil) Z Buffer
- Fast Z and color clears
- Full DX9 vertex shader support with up to 6 vertex units

**SmartShader™ Technology**
- Programmable pixel and vertex shaders
- 16 textures per pass

**SmoothVision™ Technology**
- Pixel shaders up to 160 instructions with 32-bit floating point precision for each RGBA component
- Multiple render target support
- Shadow volume rendering acceleration
- High precision 10-bit per channel frame buffer support

**HYPER Z™**
- 3-level Hierarchical Z-Buffer with early Z test
- Lossless Z-Buffer compression (up to 24:1)
- Fast Z-Buffer Clear

**Hyper Z™**
- Programmable pixel and vertex shaders
- 16 textures per pass
- Multiple render target support
- Shadow volume rendering acceleration
- High precision 10-bit per channel frame buffer support

**Learn More:**
Visit: www.ati.com/FireGL

**ATI – Creating The Ultimate Visual Experience.**