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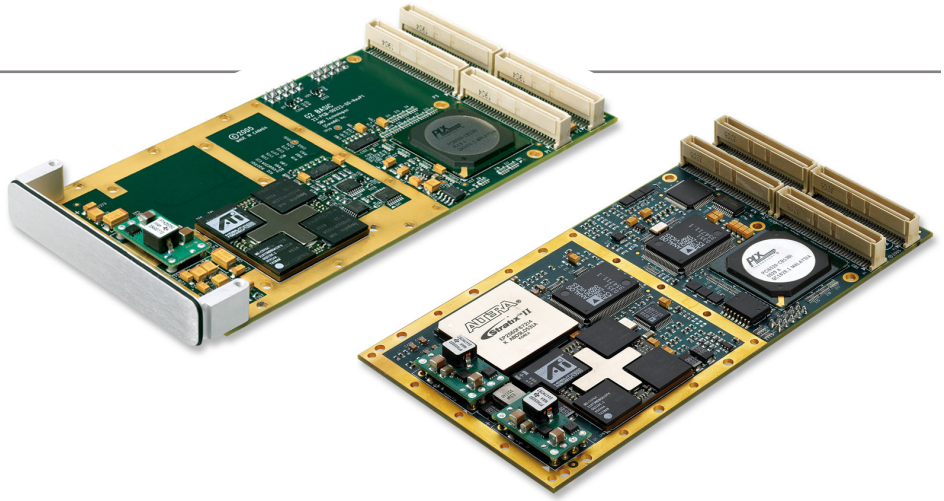
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# G2 Graphics PMC Module Family

## *Advanced Graphics and Video Capture on a Compact Rugged PMC Module*

The G2 Graphics PMC Module Family provides the powerful 3D graphics processing power of ATI's popular Mobility Radeon 9000 (M9) chip, as used in high end notebook computers, on a PMC module available in three ruggedness levels.

The M9's internal processors run at 250 MHz and provide separate, concurrent pipeline engines for 2D processing, 3D processing, output processing, and video capture processing. The M9 provides 64 Mbytes of 128-bit wide DDR video memory running at 200 MHz. Combined, this provides graphics power in the range of high-end desktop workstations, all on a PMC module.

The G2 is available in three versions:

- Basic - for single-head graphics-only applications
- Dual - for dual display applications
- Plus - for dual display applications requiring up to two channels of video capture and overlay.

All display outputs and video inputs support a wide array of formats to ensure the G2 can support most applications 'out of the box'.

Complete driver software support and demonstration software, available separately from ALT Software, ensures trouble-free operation combined with optimized performance on Windows, Linux, VxWorks and Integrity.

A migration path to DO-178B qualified drivers is available via ALT Software.

## FEATURES:

- Powerful graphics processing from ATI™ Mobility™ Radeon™ 9000
- Basic version supports full range of monitor types and resolutions as a secondary display
- Dual version supports second independent monitor with similar range of monitor types and resolutions
- Plus version adds extensive video capture capability, for direct 'video on graphics' capability
- Complete OpenGL® Driver support via ALT Software™ for:
  - VxWorks™ on Intel® and PowerPC® processors
  - Integrity® on PowerPC processors.
  - Windows® XP and Linux® for Intel® Processors

### Processors

- Available in three ruggedization levels:
  - Commercial grade
  - Extended temperature
  - Conduction cooled
- Available demonstration software via ALT Software

abaco SYSTEMS

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## Specifications

**Display Output Channel 1. Any one of the following output types can be activated at a time:**
- DVI output up to 1600 x 1200 at 60 frames/second (not supported at full temperature range)
- LVDS output up to 1024 X 768 at 60 frames/second
- RGB output up to 1280 X 1024 at 85 frames/second, SE or Diff. VGA. Also supports RS-343, and STANAG 3350
- TV output: for NTSC/ RS-170, PAL, S-Video

**Display Output Channel 2**

**(Dual and Plus models only):**
- Same specifications as above for display output channel 1 for DVI, LVDS, and RGB/VGA.

**Video Input Channels (Plus model only). Any two video input channels can be activated:**
- LVDS input: Up to 1024 X 768 at 60 frames/second
- RGB input: Up to 1600 x 1200 at 15 frames/second, SE or Diff, for VGA, RS-343, and STANAG 3350
- TV input: for NTSC/RS-170, PAL, and S-Video

**Video Input Resolution & Frame Rates**
- RGB Analog up to 1600 x 1200
- LVDS up to 1024 x 768
- TV - NTSC/PAL
- STANAG 3350 A/B/C

**Graphics processing capability**
- 250 MHz graphics processor speed
- 200 MHz DDR 64 Mbytes Video SDRAM
- Powerful graphics performance 3D Mark 2001 SE v1.0: 7,038 (1024 X768, 32 bpp)

**PCI Bus**
- PCI 2.2, 32 or 64 bit at 33 or 66 MHz

**Software Drivers**
- Available separately
- OpenGL 1.3 drivers for Windows XP, Linux, VxWorks, Integrity
- Includes GLUT 3.7, GLU 1.3, GLX 1.2, Mini-X Server, test tools and demonstration software.

**I/O Routing**
- Rear panel via PMC P4 connector
- G2 Riser Modules available to provide front panel access during project development

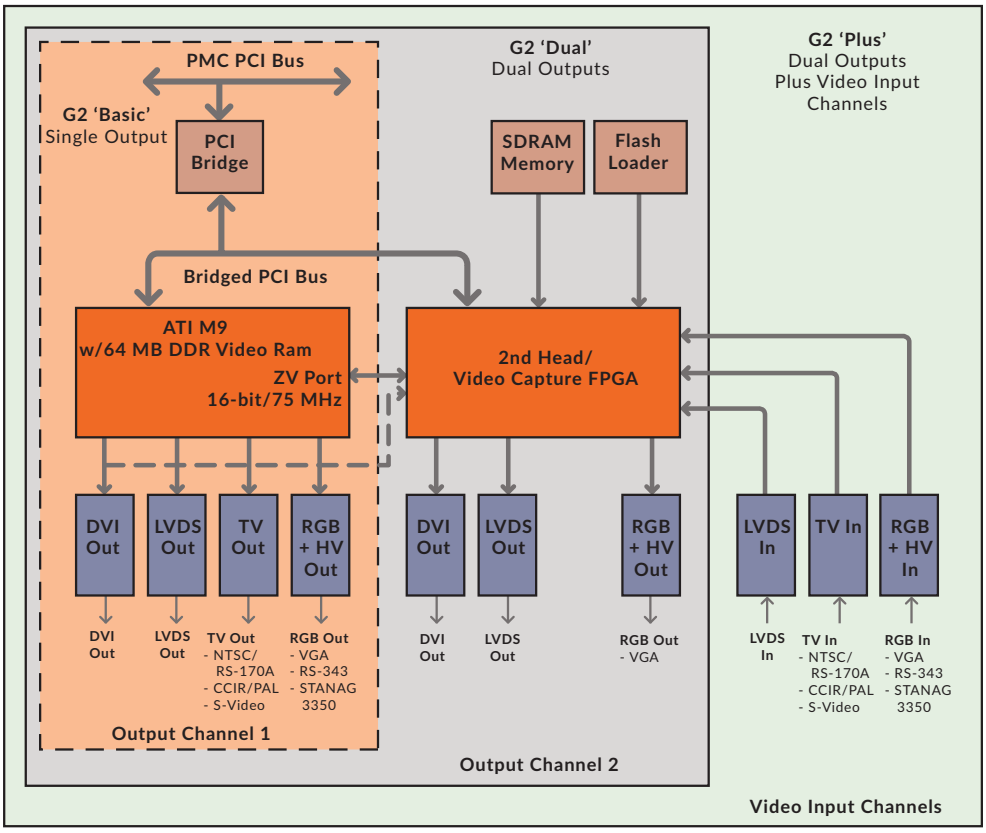
**Synchronization Options. The G2 family provides a full array of synchronization options, selectable during software initialization. Included are those:**
- Required by the applicable standard
- Optional in the standard, and
- Others that are in common use to meet a wide variety of needs.
- Analog inputs/outputs supported with standard H/V sync and Sync-on-Green input modes.

**Power Consumption**
- The G2 family requires a relatively small amount of power, given its very high performance.
- Power consumption depends on actual graphics operations in each application.

**Power**

| | Typical (watts) | Max. (watts) |
|---|---|---|
| G2 Basic | 8 | 12 |
| Dual | 9 | 14 |
| Plus | 11 | 18 |

## Block diagram




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