The Graphics Processor Mezzanine (GPM) card, a commercial product developed by General Dynamics Mission Systems, provides 2D and 3D graphics and video for extreme shock, vibration and temperature environments.

**Product Summary**

The GPM provides a very low power and high performance image processing solution to drive displays for airborne and surface vehicle applications. The GPM typical operating power consumption is 7 watts for 2D and 3D applications.

**Architecture**

The GPM architecture is based on the AMD Mobility™ Radeon® M54 graphics processor providing one of the fastest and most advanced 2D and 3D multimedia graphics performance in its class for aerospace and military applications. The GPM is available in a single width XMC interface configuration and is designed for conduction cooled, VITA 47, level ECC4 and MIL-STD-810F operating environments. The GPM supports extensive Built-In-Test (BIT) features to aid system diagnostics, including JTAG, and is mechanically designed to provide a 20-year service life. Thermal sensors are also included to provide monitoring of on-board temperatures.
Graphics Processor Mezzanine (GPM)

Technical Specifications
- Module Power (Typical): 7 Watts
- Operating Temperature: (-40° to +105°C) at mezzanine card edge
- Non-operating Temperature: (-55° to +105°C)
- Sine Vibration: 10g
- Random Vibration: 7.7 Grms
- Basic Shock: 40g, 11 ms
- Humidity: 100% RH condensing
- Altitude: 15,240m (50,000 ft)

Software
The GPM driver software suite supports OpenGL 1.2 and 2.0 for both Green Hills INTEGRITY™ and Wind River VxWorks® operating systems.

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