Features

- **AMD™ Radeon™ E6760 GPU 600MHz**
- **800MHz 128-bit 1GB GDDR5 Memory**
- **Form Factor: MXM-3.0**
- **Bus Interface: PCIe 2.1**
- **GPU Interface: Up to 16 lanes PCIe 2.1**
- **40nm Process Technology**
- **Floating Point Performance: 576 GFLOPS**
- **Shader Processing Units: 480**
- **DirectX® 11**
- **Shader Model 5.0**
- **OpenGL® 4.1**
- **OpenCL™ compliant:**
  - **AMD™ Stream Computing**
  - **OpenCL™ 1.1**
  - **DirectCompute 11**
- **AMD™ Eyefinity™ Display**
- **Full 30-bit Display Pipeline**
- **Stream Computing**
- **Motion Video Decode:**
  - **UVD3 for H.264, VC-1, MPEG-2, MPEG-4 part 2 decoding**
- **Internal Thermal Sensor**

Overview

WOLF is a manufacturer of COTS products for Industrial, Medical, Military, and Aerospace customers.

The MXM3.0-E6760-VO can provide dozens of unique combinations of HDMI, DisplayPort, DVI, TMDS, LVDS, SVGA.

This card uses a standard MXM-3.0 connection, and is available in extended temperature conduction-cooled with an operating range between -40°C and +85°C. Utilizing WOLF's expertise, the MXM3.0-E6760-VO is rated for MIL-STD-810D 40G shock and vibration, and IPC Class 3 reliability.

Custom Configurations:

WOLF offers OEMs customized video configurations on all of its Video Graphic Modules, guaranteeing the perfect fit to your product.
The MXM3.0-E6760-VO is a member of WOLF’s Video Graphic Modules family, and allowing for dozens of unique combinations of video outputs using the following: HDMI, DisplayPort™, DVI-D, TMDS, LVDS, VGA.

**Video Output Options:**
- LVDS
- TMDS
- HDMI 1.4a
- DisplayPort™ 1.1a, 2.0
- VGA

**Environmental Specs**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
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<tbody>
<tr>
<td>Supply Voltage</td>
<td>+3.3V and +5V and +12V DC</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>typical 25 watts</td>
</tr>
<tr>
<td>Dimensions</td>
<td>MXM-3.0 Type ‘A’ 70mm x 82mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Less than 125 grams</td>
</tr>
<tr>
<td>Operating Temp</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Storage Temp</td>
<td>-55°C to +105°C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5% to 95% non-condensing</td>
</tr>
<tr>
<td>Shock</td>
<td>40G, 11ms half-sine shock pulses in 3-axis</td>
</tr>
<tr>
<td>Explosion Safety</td>
<td>no voltages above 12V DC</td>
</tr>
<tr>
<td>Altitude</td>
<td>between 0 and 15,250 meters</td>
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</tbody>
</table>

**ADVANCED FEATURES**

Unique to WOLF Video boards is the monitoring of two on-board temperature sites: GPU die PCB conductive rail, using a standard SM-BUS interface.

Visit www.WOLF.ca/products/ for more information about this and other advanced video modules and solutions.
**AMD/ATI Mobility Radeon™ E6760 Specifications:**

The AMD™ Radeon™ E6760 is a fully integrated graphics solution which provides the fastest and most advanced 2D and 3D multimedia graphics performance in its class for mobile, industrial, aerospace and military computers using the new PCI Express® bus architecture.

**Graphic Features:**
- **DirectX® 11** programmable vertex and pixel shades, enabling complex and realistic texture and lighting effects. Up to 16 textures per pixel.
- **OpenGL® 4.1**
- **Smart Model 5.0**
- **AMD™ Eyefinity™ Technology**, supports up to six independent output displays. Multiple display interface combinations include analog RGB, single/dual-link DVI, single/dual-link LVDS, DisplayPort™ 1.1a, DisplayPort™ 2.0 and HDMI™ 1.4. HDMI 1.4 supports stereoscopic video while DisplayPort 2.0 enables higher link speeds and simplifies display connectivity with a daisy-chain cable and connector architecture. AMD™ Eyefinity™ technology benefits digital signage systems by minimizing system cost and enabling multiple displays to be driven from a single system controller.
- **GPGPU™.** Delivering 576 GFLOPs of peak single precision floating point performance, the AMD™ Radeon™ E6760 GPU is ideal for general purpose, graphics processing unit (GPGPU) applications such as ultrasound, RADAR, and video surveillance. Supported by the industry standard OpenCL™ programming language, GPGPU application software development is accelerated with the AMD™ Stream Software Development Kit (SDK).

**Video Modes:**
The VGA, DVI, and LVDS outputs will support the following resolutions for both LCD and CRT displays:
- 640×480 (VGA)
- 800×600 (SVGA)
- 1024×768 (XGA)
- 1280×800 (WXGA)
- 1280×1024 (SXGA)
- 1600×1200 (UXGA)
- 1920×1200 (WXGA)
- 2048×1536 (QXGA)
- 2560×1600 (WQXGA)
- 2560×2048 (QSXGA)
- up to 3840×2400 (QUXGA)
These resolutions are supported for the following refresh rates:
- 60Hz
- 70Hz
- 75Hz
- 85Hz
RGB and DVI video modes support 16-bit (65K) color and 32-bit (16.7 million) color.

**Specifications:**
- **OpenGL® 4.1**
- **PCI Express Specification Rev. 2.1**
- **DVI 1.0 Spec Digital Visual Interface Assemblies**
- **IEEE STD 1386 Standard For Common Mezzanine Card Family**

**Military Standards:**
- **MIL-STD-810 Environmental Engineering**
- **IPC Class 3 Requirements for Soldered Electrical and Electronic Assemblies**