The EXP237 is a 6U VMEbus form factor expansion card offering three additional XMC/PMC expansion sites via an on-board connector designed to be compatible with many VMEbus single board computers from GE Fanuc Intelligent Platforms.

A unique feature of this expansion card is the option to include the ATI Radeon E2400 Graphics Processing Unit in place of one of the XMC/PMC sites providing 2D, 3D, and multimedia graphics performance for embedded systems.

Features of this Graphics Processing Unit include:
- 64-bit interface to 128 Mbyte GDDR3 memory
- Native PCI Express x16 bus interface with flexibility to operate in x16, x8, x4, x2, and x1 modes
- Maximum HDMI Resolution: 1920 x 1080 (Full HD)
- Dual Analog/Digital video interface

Simple Connection to the Host
Connection to the host is via PCI Express through on-board connectors. The PCIe connection can be either x16 or x8 depending upon the host SBC.

Please contact GE Fanuc Intelligent Platforms for further information.
EXP237 XMC Expansion Card for VME Systems

Specifications

Components
- PCIe Switch: PEX8648
- Optional ATI Radeon E2400 Graphics Processing Unit

Board-to-Board Connector
- Either x16 or x8 PCIe based on Host Processor Board
- Power and reset signals

Board Configurations
- Three XMC/PMC sites
  - One 133 MHz
  - Two 100 MHz
- Two XMC/PMC sites + two display ports and one composite video
  - One 133 MHz
  - One mini-USB with the V7875

MTBF
- Contact Factory

Dimensions
- 6U (4HP) single slot Eurocard form factor
- Height: 9.2 in. (233.4mm)
- Depth: 6.3 in. (160mm)
- Thickness: 0.8 in. (20.3mm)

Power Requirements
- +5 VDC (±5 percent), 3 A (typical), 4 A (maximum)
- +12 VDC (±5 percent), 0 mA
- -12 VDC (±5 percent, 0 mA

Note: Does not include PMC site for power requirements

Level 1 Environmental

<table>
<thead>
<tr>
<th>Cooling Method</th>
<th>Convection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conformal Coating</td>
<td>Optional</td>
</tr>
<tr>
<td>High/Low Temperature</td>
<td>0° to 55° C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-50° to 100° C</td>
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<tr>
<td>Shock</td>
<td>12 g shock</td>
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<tr>
<td>Random Vibration</td>
<td>5 Hz to 100 Hz PSD increasing at 3 dB/octave</td>
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<tr>
<td></td>
<td>100 Hz to 1000 Hz PSD = 0.04 g/Hz</td>
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<tr>
<td></td>
<td>1000 Hz to 2000 Hz PSD decreasing at 6 dB/octave</td>
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<tr>
<td>Humidity</td>
<td>Operating: relative humidity 5% to 95%, noncondensing</td>
</tr>
<tr>
<td></td>
<td>Storage: relative humidity 5% to 95%, noncondensing</td>
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<tr>
<td>Altitude</td>
<td>Operating: 0 – 10,000 ft (3,000m)</td>
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<tr>
<td></td>
<td>Storage: 0 – 40,000 ft (12,000m)</td>
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</tbody>
</table>

Ordering Information

- EXP237-100000 Three XMC/PMC sites
- EXP237-200000 Two XMC/PMC sites + Two Display Ports and one composite video

About GE Fanuc Intelligent Platforms

GE Fanuc Intelligent Platforms is a leading global provider of embedded computing solutions for a wide range of industries and applications. Our comprehensive product offering includes many types of I/O, single board computers, high performance signal processors, fully integrated, rugged systems including flat panel displays, plus high speed networking and communications products. The company is headquartered in the U.S. and has design, manufacturing and support offices throughout the world. Whether you’re looking for one of our standard products or a fully custom solution, GE Fanuc Intelligent Platforms has the breadth, experience and 24/7 support to deliver what you need. For more information, visit www.gefanuc.com.

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