

# XMCGA6

## XMC High Performance Graphics Board

### Features

- NVIDIA G72/G73 GPU
  - As used on NVIDIA® GeForce® 7300GS/7600GT
- Leading OpenGL performance
- 128/256 MBytes GDDR3 SDRAM
- Two independent output channels
- VESA output resolutions to 1600x1200
- RS-170, NTSC & PAL video output
- DVI 1.0 digital video output
- RS170, NTSC & PAL Video input
- Air- and rugged-conduction variants
- XMC form factor

Bringing desktop performance to the rugged market, the XMCGA6 represents a step change in capability for the embedded systems integrator. With outstanding functionality, together with PCI Express™ interconnect, even the most demanding applications can now be deployed with incredible fidelity.

The XMC form factor allows for high speed PCI Express connections to single board computers in the system. The XMCGA6 supports the 8-lane PCI Express implementation, providing the maximum available communication bandwidth to a CPU such as GE Fanuc Intelligent Platforms PPC9A. The PCI Express link will automatically adapt to the active number of lanes available, and so will work with single board computers in 8- and 4-lane configurations.

With a rich set of I/O, the XMCGA6 is designed to serve many of the most common video applications. Dual, independent channels mean that it is capable of driving RGB analog component video, digital DVI 1.0, and RS170, NTSC or PAL standards. In addition, the XMCGA6's video input capability allows integration of sensor data using RS170, NTSC or PAL video formats.

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## Specifications

### GPU

- State of the art NVIDIA® G72 or G73 graphics processor

### Video memory

- 256 MBytes GDDR3 memory (G73)
- 128 MBytes GDDR3 memory (G72)

### Number of channels

- Two

### RGB output

- VESA: resolutions up to 1600x1200 @ 60 Hz

### Digital output

- DVI 1.0: resolutions up to 1600x1200 @ 60 Hz

### TV output

- RS170, NTSC, PAL

### Video input

- RS170, NTSC, PAL

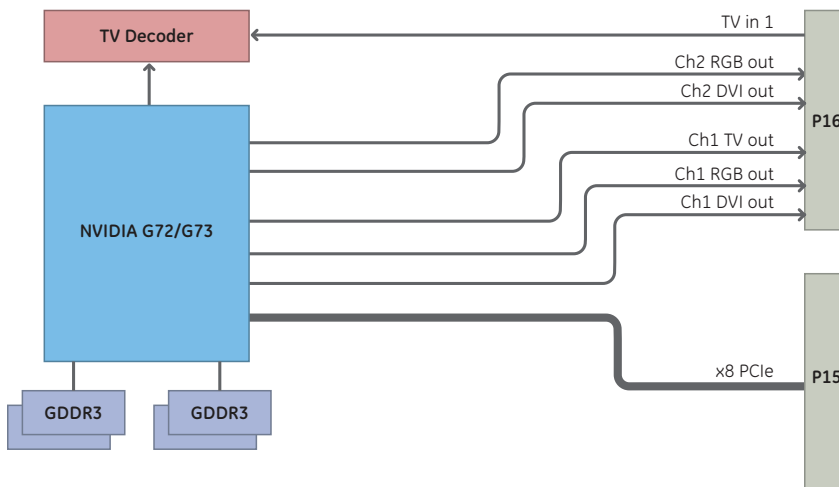
### Form factor

- XMC: allows maximum bandwidth between CPU & GPU on 8-lane PCI Express

### Drivers

- Drivers for Windows® & Linux® running on Intel® host card available from NVIDIA
- VxWorks® OpenGL ES for PowerPC or Intel

## Block Diagram



## Standard Ordering Information

### XMCGA6-1000

Level 1 Air-cooled XMCGA6  
Dual Channel NVIDIA graphics processing unit, with NVIDIA G72 CPU; 128 MBytes GDDR3 SDRAM. Dual DVI 1.0 output; Dual VGA output; Dual RS-170/NTSC/PAL output; RS-170/NTSC/PAL Input

### XMCGA6-2000

Level 2 Air-cooled XMCGA6, as above

### XMCGA6-3000

Level 3 Air-cooled XMCGA6, as above

### XMCGA6-4000

Level 4 Conduction-cooled XMCGA6, as above

## About GE Fanuc Intelligent Platforms

GE Fanuc Intelligent Platforms, a joint venture between General Electric Company (NYSE: GE) and FANUC LTD of Japan, is an experienced high-performance technology company and a global provider of hard-ware, software, services, and expertise in automation and embedded computing. We offer a unique foundation of agile, advanced and ultra-reliable technology that provides customers a sustainable advantage in the industries they serve, including energy, water, consumer packaged goods, government and defense, and telecommunications. GE Fanuc Intelligent Platforms is a worldwide company headquartered in Charlottesville, VA and is part of GE Enterprise Solutions. For more information, visit [www.gefanuc.com](http://www.gefanuc.com).

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## Additional Resources

For more information, please visit the GE Fanuc Intelligent Platforms web site at:

[www.gefanuc.com](http://www.gefanuc.com)

