Telum™ 2001-VGA

High-Resolution CRT Video Graphics Controller for AdvancedMC™

Features

- AMC.0 R2.0 compliant
- Resolutions up to 1280 x 1024 at 60Hz with 24 bpp on a single display device
- 8 Mbyte embedded SGRAM memory 64 bits wide
- Standard high-density female DB15 CRT connector on front panel
- 3D and 2D hardware acceleration and BitBLT
- Carrier Grade Linux® drivers available

Telum™ 2001-VGA provides a high-quality, high-performance graphics adapter for an AdvancedMC™ carrier board. It supports a variety of SVGA/CRT monitors in single-display configurations.

Designed to handle high-resolution graphics displays, this AdvancedMC has a Silicon Motion Lynx3DM8+ accelerator and 8 Mbyte of high-performance on-chip SGRAM. A comprehensive display mode supports many standard screen resolutions up to 1280 x 1024 at 60 Hz with 24 bpp.

Telum 2001-VGA has a rich feature set that includes a complete 3D rendering suite, hardware support for MPEG/DVD playback, a robust 2D drawing engine that support ROPs, BitBLTs, transparent BLT, color expansion, and line draw. A front panel-mounted standard high-density DB15 socket is provided for SVGA/CRT output.

Telum 2001-VGA is ideal for board development applications that need video for debugging and monitoring.

Telum™ 2001-VGA High-Resolution CRT Video Graphics Controller for AdvancedMC™

Specifications

Form Factor
- AMC.0 R2.0

AdvancedMC Interface
- PCI Express ×1 link

AdvancedMC Conformance
- AMC.0 R2.0

PCI Interface / Graphics Controller
- Silicon Motion Lynx3DM8+

Graphics Memory
- 8 Mbyte SGRAM 64 bits wide

Front Panel I/O
- Standard female DB15 CRT connector

Rear Panel I/O
- None

Dimensions
- 180.6 mm × 73.5 mm

Weight
- 0.058 kg (0.13 lb)

Power Requirements
- +12 VDC at 500 mA typical

Environmental
- Operating temperature: 0° to +70° C
- Humidity: 5% to 95% non-condensing
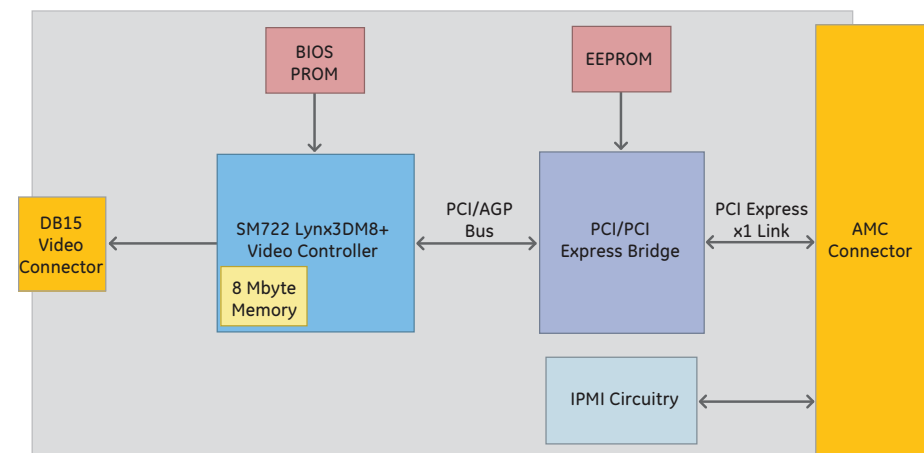- Storage temperature: -40° to +85° C

Standard CRT Resolutions Supported
- 640 × 480 × 8, 16, 24 bpp @ 60, 70, 85 Hz
- 800 × 600 × 8, 16, 24 bpp @ 60, 75, 85 Hz
- 1024 × 768 × 8, 16, 24 bpp @ 60, 75, 85 Hz
- 1280 × 1024 × 8, 16, 24 bpp @ 60 Hz

Regulatory Compliance
- FCC Part 15 Class A
- UL6095L-1
- CSA22.2 No. 60950-1
- CE Mark
- EN55022
- EN55024
- EN 60950-1

Block Diagram

Ordering Information

72001-401: Telum 2001-VGA High-resolution CRT video graphics controller for AdvancedMC; full-size front panel

72001-602: Telum 2001-VGA High-resolution CRT video graphics controller for AdvancedMC; RoHS; full-size front panel

72001-603: Telum 2001-VGA High-resolution CRT video graphics controller for AdvancedMC; RoHS; mid-size front panel

72001-604: Telum 2001-VGA AMC mid-size conversion kit (Phase 1); RoHS

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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Additional Resources

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

www.gefanuc.com