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P2-Video

General Purpose CRT and LCD Video Graphics Controller

Application Information

The P2-Video provides a high quality, high performance graphics adapter solution PC•MIP mezzanine card. It supports a variety of SVGA/CRT monitors in single display configurations.

The P2-Video features the Silicon Motion LynxEM4 accelerator. Four Mbytes of high performance on-chip SGRAM handles high resolution graphics displays. Its comprehensive display mode control supports many standard screen resolutions. 24 bpp is supported at a screen resolution of 1024 x 768 at 75 Hz.

Features include a BitBLT engine, MPEG-1, MPEG-2, 2D graphics acceleration, and double-buffered video.

The P2-Video module includes a front panel-mounted standard high-density DB15 for SVGA/CRT output.

Windows device drivers are available for P2-Video. P2-Video is PC99 and ACPI compliant. The P2-Video is compatible with the PC•MIP draft specification (ANSI/VITA-29).

Features

- Resolutions up to 1024 x 768 at 75 Hz with 24 bpp on a single display device
- 4 Mbytes of embedded SGRAM memory 128 bits wide
- High density DB15 CRT connector on front panel
- Hardware acceleration and BitBlt

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Specifications

Form Factor	PC•MIP Single-wide Type II 10H
PC•MIP Interface	PC•MIP draft specification, Revision 0.9
PCI	PCI Specification, Revision 2.1
PCI Interface/Graphics Controller	Silicon Motion LynxEM4
Graphics Memory	4 Mbytes SGRAM 128 bits wide
Standard CRT Resolutions Supported	640 x 480 x 8, 16, 24bpp @ 60, 75, 85 Hz 800 x 600 x 8, 16, 24bpp @ 60, 75, 85 Hz 1024 x 768 x 16, 24bpp @ 60, 75 Hz
Front Panel I/O	CRT via standard female DB15 CRT connector
Flexible I/O	None
On-Board Oscillator	14.31818 MHz
Dimensions	47.0 mm x 99.0 mm
Weight	0.04 kg (0.085 lb.)
Power Requirements	+3.3 VDC, 150 mA max +5 VDC, 10 mA max
Environmental	Operating temperature: 0 to 70°C Humidity: 5 to 95% non-condensing Storage: –40 to +85°C

Compatibility

P2-Video is a Type II module. This means that it has a porch with a front panel I/O connector. It can be plugged into any Type II module site. If the bus mastership features of the graphics controller are used, then this module requires a site that has bus mastership capability. Bus mastering sites are shown in bold in the table below:

Carrier	Type	Slots
MC-101	Short PCI slot	**Yes**
MC-303	3U Compact PCI	**4**, **5**
MC-606	6U Compact PCI	**4, 5, 6, 7**
MC-607	6U Compact PCI	**4, 5, 6, 7**
MC-804	Long PCI slot	**4, 5**[1], **6**[1], **7**[1]

1. Slots 5, 6, 7 of the MC-804 can only accept Type II modules if additional height is available.

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Ordering Information

P2-VIDEO	PC•MIP module for SVGA/CRT at 1024x768 Includes front panel bezel (B-004)
EK-P-VIDEO	Engineering Kit for P2-Video. Contains: Printed hardware user manual Bill of materials Assembly diagram Floppy disk containing: Windows NT 4.0 driver and control panel applet The Silicon Motion LynxEM710 user manual is available upon request

Associated Products

PMC-VIDEOPLUS	PMC for SVGA/CRT display at 1280x1024
B-004	Front panel bezel for single-wide Type II 10H modules with DB9 or HD15 connectors

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