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Find the *Rastergraf Stratus/PMC* at our website: ***Click HERE***

Stratus/PMC

High Resolution VGA, DVI and LVDS Graphics with Video, DVI and RGB Digitizers

Peritek's **Stratus/PMC** is a dual-head display controller and video capture PMC (PCI Mezzanine Card) board. The card is designed for use under VxWorks (using Wind River's WindML or Peritek's SDL), LynxOS (using SDL) and Linux (using SDL or XFree86) operating environments. It also supports DirectX and OpenGL environments running Windows.

Stratus/PMC features a Silicon Motion SM731 System On a Chip (SOC) graphics accelerator with 16 Mbytes of on-chip SDRAM. This 128-bit 2D/3D graphics engine supports compatible displays at up to 1600 x 1200 x 24 bpp (16.7 million colors). Dual-head output maximum resolution is 1280 x 1024: see the Argus/PMC for a higher resolution dual-head graphics controller solution.

The Stratus/PMC features the Conexant Bt835 NTSC/PAL/S-Video and Analog Devices AD9882 High Speed RGB/DVI digitizers. A loopback can connect Video Output to Input for self-testing.

The standard Stratus/PMC configuration includes:

- Front-panel DVI-I connector: Supplies DVI Output and primary and secondary analog RGB outputs. The RGB outputs support VGA (RGBHV), Sync-On-Green (SOG), and Composite Sync.
- Front panel 15-pin MDSM connector: Provides S-Video and Composite Video inputs and outputs or high speed (1280 x 1024) RGBHV input with optional Sync-on-Green.
- Rear panel (J4/Pn4): Supplies dual LVDS outputs.

Features

- Silicon Motion SM731 128-bit 2D/3D graphics controller
- 32-bit, 33/66 MHz PCI interface
- Pixel size programmable for 8, 16, or 24 bits per pixel (bpp)
- 16 MB SDRAM Graphics Memory
- Hardware scroll, pan, and cursor
- VGA BIOS support
- Optional local 3.3V regulator for hosts lacking 3.3V
- Analog (RGB) output up to 1600 x 1200 x 24 bpp (1280 x 1024 max. resolution for dual-head outputs: see Argus/PMC for higher resolution solution.)
- PanelLink/DVI output up to 1280 x 1024 x 24 bpp
- LVDS output up to 1024 x 768 x 24 bpp (rear panel only)
- NTSC/PAL/SECAM Video Input Digitizer
- High Speed RGB input up to 1280 x 1024 (preliminary)
- PanelLink/DVI input up to 1280 x 1024 (preliminary)
- Flexible assignment of front and rear panel connections
- SDL Support for VxWorks and LynxOS
- WindML Support for VxWorks
- X and SDL support for Linux

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