VTV2000

VGA to TV/RS170 Scan Converter for PC/104

Advanced Micro Peripherals
THE EMBEDDED VIDEO EXPERTS

The VTV2000 is a scan converter board that accepts non-interlaced VGA signals at up to 2048x1536 resolution from a PC or Macintosh computer for conversion to broadcast-quality NTSC or PAL RS170/TV signals.

Computer

VGA to

broadcast

quality

PAL/NTSC

Unlike conventional scan converters, the VTV2000 features on-board Frame Store and a DSP unit which performs scan conversion, flicker filtering, scaling and colour space conversion in the digital domain.

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EMBEDDED-PC PC/104 MODULES

VTV2000

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The processed video data is sent to the digital video encoder for conversion into broadcast-quality composite and S-Video signals (PAL/NTSC) or RS170.

The VTV2000 is hosted on the PC/104 bus allowing performance to be tuned under software to application requirements.

Features

Converts Computer VGA to PAL/NTSC

Composite PAL or NTSC Output

Broadcast TV Quality

RS170 Composite output

Supports up to 2048x1526 VGA resolution

Simultaneous display on VGA and TV

Standard PC/104 form factor

Option for stand-alone operation

Single +5V Power Supply

Applications

Aerospace Instrumentation

Instrument Panel

Video Surveillance

Embedded Multimedia

RS170

Composite

Output

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PC104 Bus Interface

Standard 8/16-bit PC/104 bus
PC/104 pass-through connector
Option for stand-alone operation (not on PC/104 stack)

Serial Interface (option)

Stand-alone (non-PC/104) option
Standard RS232 port

Analogue Video Input

Progressive RGB, HSync, VSync from VGA device
Triple 8-bit digitization
Up to 2048 x 1536 VGA Input Resolution

Analogue Video Output

10-bit Digital-to-Analogue conversion
Supported output standards:
- CCIR601-NTSC
- RS170
- CCIR-PAL
- PAL-B, PAL-G, PAL-H, PAL-I

Composite or S-Video

Video Output Adjustments

Contrast (or luma gain) adjustable from 0 - 200% of original
Saturation (or chroma gain) adjustable from 0 - 200% of original
Sharpness (or edge enhancement) adjustable over 16 steps
Brightness (or luma level) can be adjusted from 0 - 255 steps

System Requirements

PC/104 hosted
- x86 PC-Compatible PC/104 Computer
- Spare 16 bytes in PC/104 I/O space
- 5V signalling PC/104+ bus

Stand-alone
- RS232 link to host computer

Miscellaneous

Single +5V at less than 2.75W
Operating Temp of 0 to 60degC
Extended Temperature -40 to +85degC (option)
Standard 3.6 x 3.8in PC/104+ form factor

Software

Configuration software for Windows-NT/2000/XP, Linux. QNX

Related Products

Tiny886ULP	PC/104plus computer
Tiny-Gx86	PC/104plus computer

Ordering Information

Std Temp (0 to +60degC)

VTV2000-CP	PC/104 hosted, PAL Output
VTV2000-CN	PC/104 hosted, NTSC/RS170 Output
VTV2000-CP/SA	Stand-alone, PAL Output
VTV2000-CN/SA	Stand-alone, NTSC/RS170 Output

Ext Temp (-40 to +85degC)

VTV2000-CP-Ext	PC/104 hosted, PAL Output
VTV2000-CN-Ext	PC/104 hosted, NTSC/RS170 Output
VTV2000-CP/SA-Ext	Stand-alone, PAL Output
VTV2000-CN/SA-Ext	Stand-alone, NTSC/RS170 Output

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