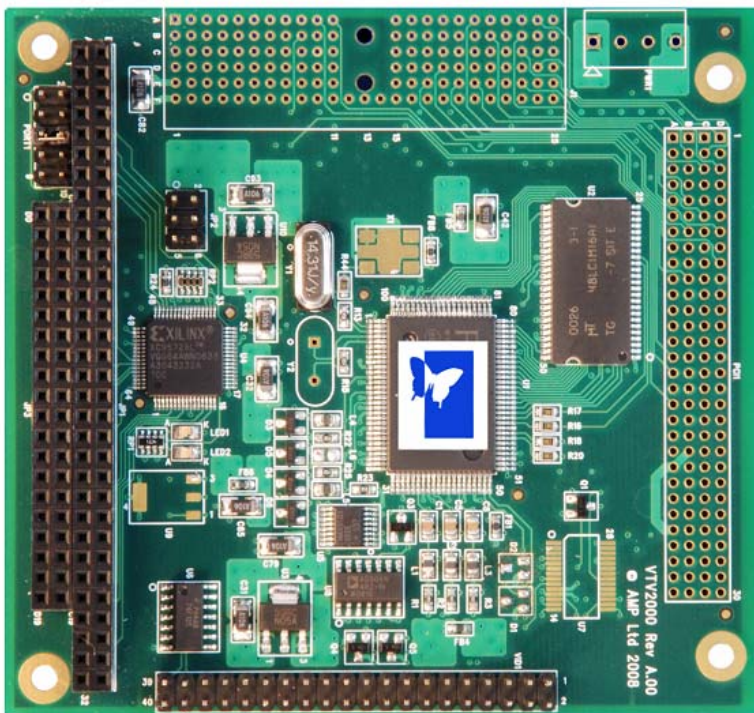


# VTV2000

VGA-to-RS170 Converter for PC/104

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.

# VTV2000

VGA-to-RS170 Converter for PC/104



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

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



<b>PC104 Bus Interface</b>	Standard 8/16-bit PC/104 bus PC/104 pass-through connector Option for stand-alone operation (not on PC/104 stack)	
<b>Serial Interface (option)</b>	Stand-alone (non-PC/104) option Standard RS232 port	
<b>Analogue Video Input</b>	Progressive RGB, HSync, VSync from VGA device Triple 8-bit digitization Up to 2048 x 1536 VGA Input Resolution	
<b>Analogue Video Output</b>	10-bit D-to-A conversion Standard CCIR NTSC Standard RS170 Standard CCIR-PAL PAL-B, PAL-G, PAL-H, PAL-I Composite or S-Video	
<b>Video Output Adjustments</b>	<b>C</b> ontrast (or luma gain) adjustable from 0 - 200% of original value <b>S</b> aturation (or chroma gain) adjustable from 0 - 200% of original value <b>S</b> harpness (Or edge enhancement) adjustable over 16 steps <b>B</b> rightness (or luma level) can be adjusted from 0 - 255 steps	
<b>System Requirements</b>		
	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 option	RS232 link to host computer
<b>Miscellaneous</b>	Single +5V at less than 2.75W Operating Temp of 0 to 60degC (-40 to +85degC Extended Temp option) Standard 3.6 x 3.8in PC/104+ form factor	
<b>Software</b>	Drivers for Windows-NT/2000/XP, Linux. QNX	
<b>Related Products</b>	Tiny886ULP	PC/104plus computer
	Tiny-C3	PC/104plus computer
	Tiny-Gx86	PC/104plus computer
<b>Ordering Information</b>		
	Std Temp (0 to +60degC)	
	<b>VTV2000-CP</b>	PC/104 hosted, PAL Output
	<b>VTV2000-CN</b>	PC/104 hosted, NTSC/RS170 Output
	<b>VTV2000-CP/SA</b>	Stand-alone, PAL Output
	<b>VTV2000-CN/SA</b>	Stand-alone, NTSC/RS170 Output
	Ext Temp (-40 to +85degC)	
	<b>VTV2000-CP-Ext</b>	PC/104 hosted, PAL Output
	<b>VTV2000-CN-Ext</b>	PC/104 hosted, NTSC/RS170 Output
	<b>VTV2000-CP/SA-Ext</b>	Stand-alone, PAL Output
	<b>VTV2000-CN/SA-Ext</b>	Stand-alone, NTSC/RS170 Output

