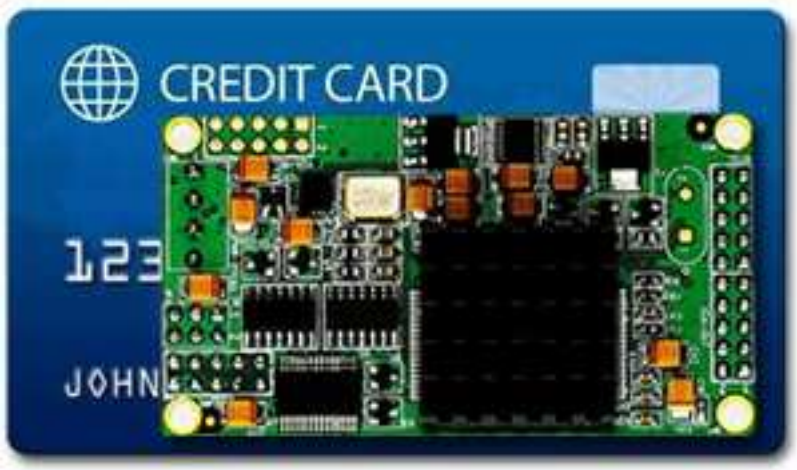
nanoVTV

Intelligent VGA-to-NTSC/RS170 / PAL Converter

Advanced Micro Peripherals
THE EMBEDDED VIDEO EXPERTS

The nanoVTV 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/RS170/PAL signals.



Full Stand-alone Operation

Small 2.75x1.5 inch form factor

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

The processed video data is sent to the digital video encoder

PRELIMINARY INFORMATION (Rev A.03)
Subject to change without notification

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EMBEDDED-PC PC/104 MODULES

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for conversion into broadcast-quality composite and S-Video NTSC, RS170 or PAL.

The nanoVTV features an board micro controller allowing it to operate completely standalone without run-time control from an external system. The settings of the card can be modified via a serial link. Application-specific configuration able to be

Features

Converts Computer VGA to NTSC/RS170/PAL

Composite NTSC or PAL Output

Broadcast TV Quality

RS170 Composite output

Supports up to 2048x1526 VGA resolution

Simultaneous display on VGA and TV

On-board MPU

Persistent settings

Compact 2.75" by 1.5" board

Complete stand-alone operation no host computer required

Single +5V Regulated Power Supply

Applications

Aerospace Instrumentation

Instrument Panel

Video Surveillance

Embedded Multimedia

Computer VGA to broadcast quality NTSC/RS170/PAL Composite Output

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Rev A.03

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Technical Specification

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
- PAL

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

Serial Interface

Standard RS232 port

System Requirements

RS232 link for configuration only

Miscellaneous

Single +5V at less than 2.75W
Operating Temp of 0 to 60degC
Extended Temperature –35 to +60degC (option nanoVTV-Ext)
Compact 2.75 x 1.5in form factor

Software

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

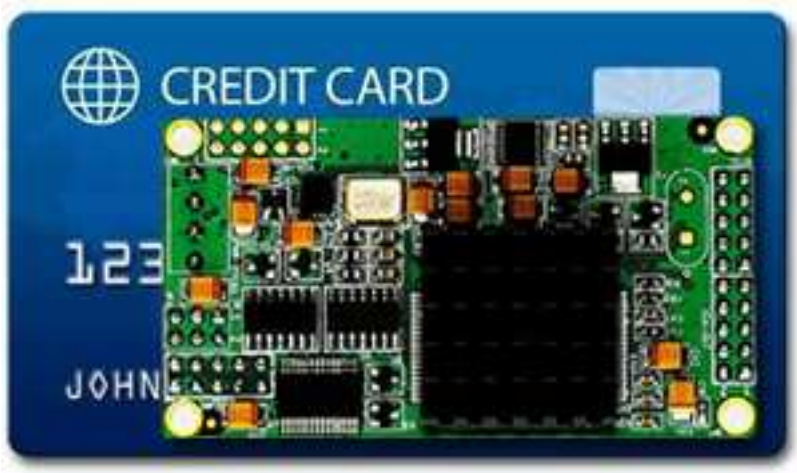
Ordering Information

Std Temp (0 to +60degC)
- **nanoVTV** NTSC/RS170 Output

Ext Temp (-30 to +60degC)
- **nanoVTV-Ext** NTSC/RS170 Output

Std Temp (0 to +60degC)
- **nanoVTV-CP** PAL Output

Ext Temp (-30 to +60degC)
- **nanoVTV-CP-Ext** PAL Output



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