**CTR-1475****MPEG-4 VIDEO COMPRESSOR WITH 4 INPUTS**

## Features

**Encoding Processor:**

Integrated RISC Microcontroller  
(to offload compression overhead from system CPU)

**Video Input:**

4 Analog Video Input Channels  
(Up to 16 concurrent cameras can be supported with four CTR-1475 in a single PC/104Plus stack)

**Video Output (Analog):**

1 Analog Video Output Channel  
(for Monitoring)

**Audio Input:**

4 Audio Input Channels  
(PCM, ADPCM Audio Compression)

**Video Quality Control:**

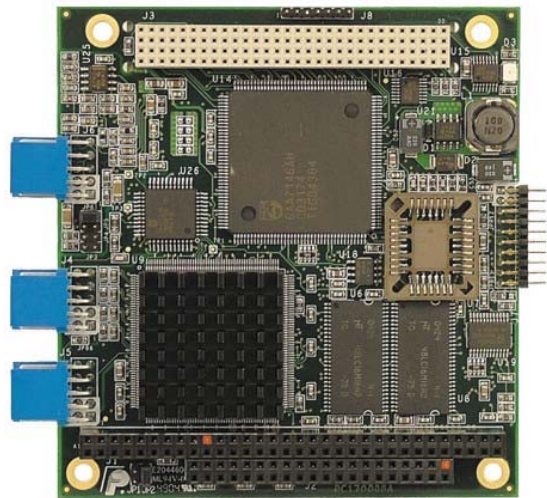
Programmable Quantization Values - Picture Size, Position,  
Panning, Tilting, Freeze

**Bit Rate Control:**

Supports Variable Bit Rate (VBR), Constant Bit Rate (CBR)  
and Hybrid Bit Rate (HBR)

**General Purpose Digital I/O:**

8 Digital I/O Channels



## General Description

The CTR-1475 is a real-time MPEG-4 video compressor, encoder and frame grabber module designed to capture up to four concurrent high-quality analog video and audio streams, encode them in compressed MPEG-4 or AVI formats, and send them to an embedded computer over the 32-bit PCI bus.

Featuring an onboard RISC microcontroller dedicated to handling the computationally intensive video compression procedure, this PC/104-Plus form factor module supports up to four cameras at a time, enabling a lower-end system processor or up to four CTR-1475 modules to be used in a single system (supporting up to 16 cameras). Because of its compact size and rugged design, the board is especially suited for live video surveillance applications where rugged environmental conditions (vibration/extreme temperatures) and space constraints exist (i.e. in transportation, industrial and defence systems).

Featuring 4-channel NTSC/PAL/SECAM video decoders with composite video (CVBS) inputs, this modular MPEG-4 encoder provides dedicated hardware and rate control algorithms to produce a high quality MPEG-4 video stream. It can capture video (from PAL/NTSC cameras, VCR, and other video sources) in any of three modes: up to 30 frames/sec on one camera at full screen; up to 30 frames/sec on two cameras at 1/2 screen; or up to 30 frames/sec on four cameras at 1/4 screen. The board also provides an analog video output channel to perform real-time monitoring of the recording sequence.

## Specifications

### Static Gain Control:

Programmable or automatic static gain control for each CVBS channel

### Motion Detection:

Programmable detection windows, motion velocity, motion sensitivity and Blind Camera Detection

### Software:

Drivers, Source Code and Demonstration Software (IP Streaming and Capabilities Demo);

### Hardware:

Compatible with Linux, Windows XPE/CE

### Video Processing:

MPEG-4 (ISO/IEC 14496-2), MPEG-4 SOP @LEVEL3

### Audio Processing:

- Supports ISO/IEC 11172-3 MPEG-1 Audio Layer 2
- Supports u-Law PCM and IMA-ADPCM for speech quality 48/44.1/32 Samplings Supported

### NTSC Compression Capabilities:

352x240 @ 120fps, 720x480 @ 30fps

### PAL Compression Capabilities:

352x288 @ 100fps, 720x576 @ 25 fps

### System File Formats:

AVI, MP-4

### Video Compression Modes:

Supports I, P, B Frame Compression

### Scaling:

Built-in High Quality Scalar (1/2, 1/3, 2/3, 1/4)

### Zoom:

Random-position high-quality linear Zoom (2X~4X)

### Minimum System Requirement:

586 Class Processor

### Bus Connectors:

PCI and ISA buses PC/104-Plus compliant

## Potential Applications

Live video surveillance applications in rugged environmental conditions and space constraints (transportation, industrial and defence systems)

## Physical Characteristics

### Operating Temperature Range:

0°C to +60°C; (Extended range as option)

### Storage Temperature:

-40° to +85°C

### Power Input:

+5 Vdc

### Power Consumption:

7W (typical), 10W (maximum)

### Dimensions:

90 x 96 mm (3.550" x 3.775")

### Architecture:

PCI Compatible

### RoHS:

- RoHS (2002/95/CE) Compliant
- Replacement for CTR-1472

## Options

- Conformal Coating
- Extended Operating Temperature Range (-40°C to +85°C)
- Custom Connectors



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