

The Professional MPEG-2 Decoder



4:2:2

**Decodes full 4:2:2 profile or MP@ML (4:2:0) up to 50 Mbps
Now with SMPTE 259, AES3, and balanced analog audio outputs**

General Description

The Stradis Professional MPEG-2 Decoder is an important element of any professional, MPEG-2 based video system. This flexible PCI card parses all standard MPEG streams, in all MPEG video and audio formats. It decodes both high-quality 4:2:2 video and 4:2:0 video at up to 50 Mbps - placing it at the head of the class in performance - and generates output in any standard format you require. Additional capabilities include the insertion of digital audio into the SMPTE 259 video signal, a Genlock input for external synchronization from a master sync generator, and a proprietary clock-recovery-and-synchronization circuit that accepts real-time streams from a satellite or terrestrial network. The Stradis Professional Decoder can even display the output on a VGA monitor; a special burst transfer mode minimizes bus overhead and produces outstanding video.

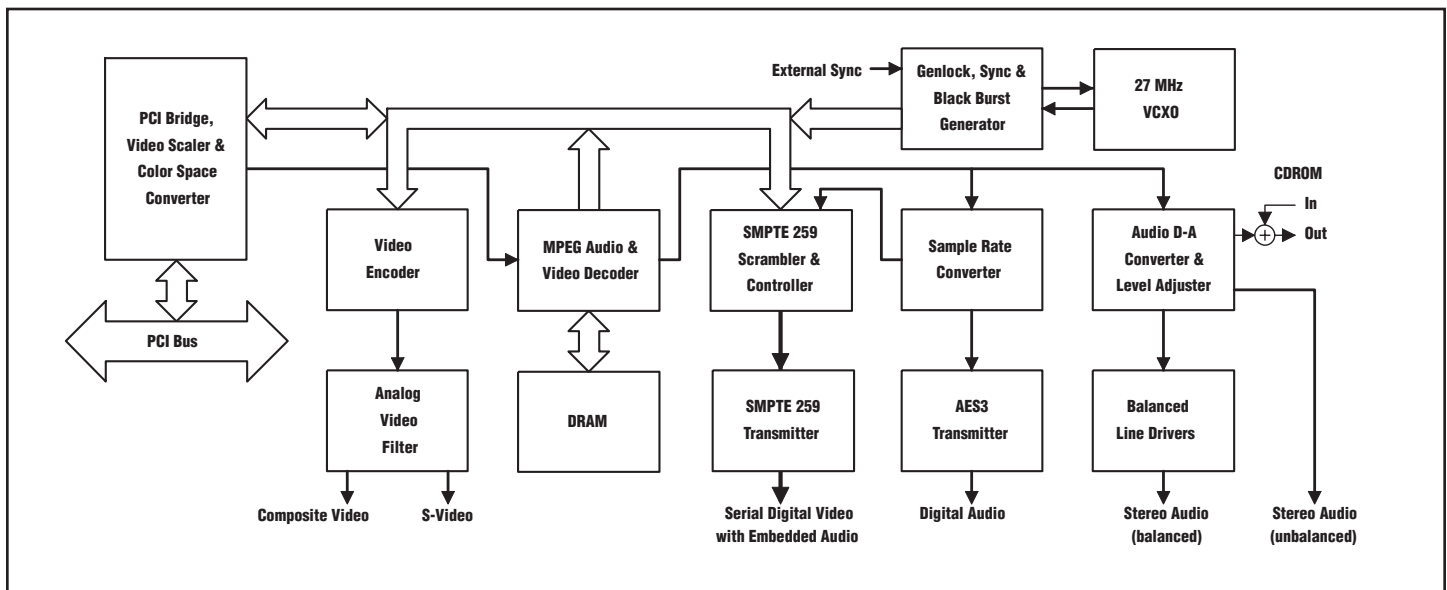
Features

- Parses all MPEG streams: MPEG-2 Elementary, Packetized Elementary (PES), Transport and Program Streams and MPEG-1 Elementary and System Streams
 - NTSC (525/60) or PAL (625/50)
 - Automatic expansion of MPEG-1 and half-D1 formats to full frame size
 - VCXO with clock recovery for real-time signals
 - Genlock (external synchronization) input
 - Serial Digital Interface (SMPTE 259) video output with embedded audio and sample-rate converter to convert MPEG audio bit-rates to 48 kHz SMPTE 259 standard
 - Digital audio (AES3) output
 - Balanced analog audio output with computer controlled line-level adjustment up to 26 dBm.
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- Supports 16:9 image aspect ratio using both Wide-Screen Signaling (using ITU-R BT.1119-2) or pan and scan
 - Video image can be displayed on the computer's VGA monitor, with scan-rate and color conversion
 - PCI bus master interface uses burst transfer mode to minimize bus overhead
 - Linux, Windows 98/2000 and Windows NT supported



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The Stradis Professional MPEG-2 Decoder. Professional performance for world-class applications.



Applications

- CATV ad insertion systems
- Distance learning systems
- Playback from video file servers
- Point of sale video displays
- Training systems
- TV broadcast systems
- Video kiosks
- Video over internet/intranet systems
- Video-on-demand systems
- Advertising content distribution
- Military systems

Specifications

MPEG Streams	ISO/IEC 13818 and ISO/IEC 11172 compliant. Parses all streams: MPEG-1 Elementary and System Streams and MPEG-2 Elementary, Packetized Elementary (PES), Transport and Program Streams.
MPEG Video	Decodes full 4:2:2 profile or MP@ML (4:2:0) up to 50 Mbits per second.
MPEG Audio	Decodes MPEG-1 layers 1 and 2, two channels, ISO/IEC 11172-3. MPEG-2 layers 1 and 2, two channels ISO/IEC 13818-3.
Digital bitstream input	Through the PCI bus.
Digital video output	SMPTE 259M or C digital video output, BNC connector.
Analog video outputs	(M) NTSC, (M) NTSC-Japan, (B, D, G, H, I, N, M) PAL. S-Video, mini-DIN connector; composite, 1V P-P, RS-170-A compliant, BNC connector. Luma and chroma signals are filtered in accordance with the standard requirements of RS-170-A and CCIR 624. A programmable cross color reduction filter is also provided.
Audio output	Balanced analog audio level up to 26 dBm. Nominal output level user selectable. For example, standard 0 dBm or 4 dBm nominal line-level with 20 dB headroom is supported. Balanced analog audio and AES3 digital audio through a positive-locking Switchcraft Tini Q-G miniature connector. Unbalanced audio (up to 10 dBm) through 3.5mm (1/8") stereo jack. Also outputs through MPC standard sound card connector with CD-ROM audio pass-through.
Genlock input	Composite video, 1V P-P, BNC connector.
On-Screen Display	8x2 to 740x480 NTSC or 8x2 to 720x576 PAL bitmap, using up to a 16 color pallet, 16 levels of blending and 16 levels of shading.
Host system requirements	Pentium-based PC with an available PCI short card slot conforming to specification revision 2.1 running Windows 98/2000, Windows NT 4.0, or greater, with a VGA supporting Microsoft Direct Draw mode or Linux 2.2.x, or greater, and an X server supporting DGA. Disk transfer rate may limit the maximum sustained MPEG data rate achievable.
Power requirements	5v (15 W maximum), 12v (3 W maximum), -12v (0.3 W maximum)
Size	Standard PCI short card, 6.875 in. (174.63 mm) by 4.2 in. (106.68 mm), less connectors.

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