ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

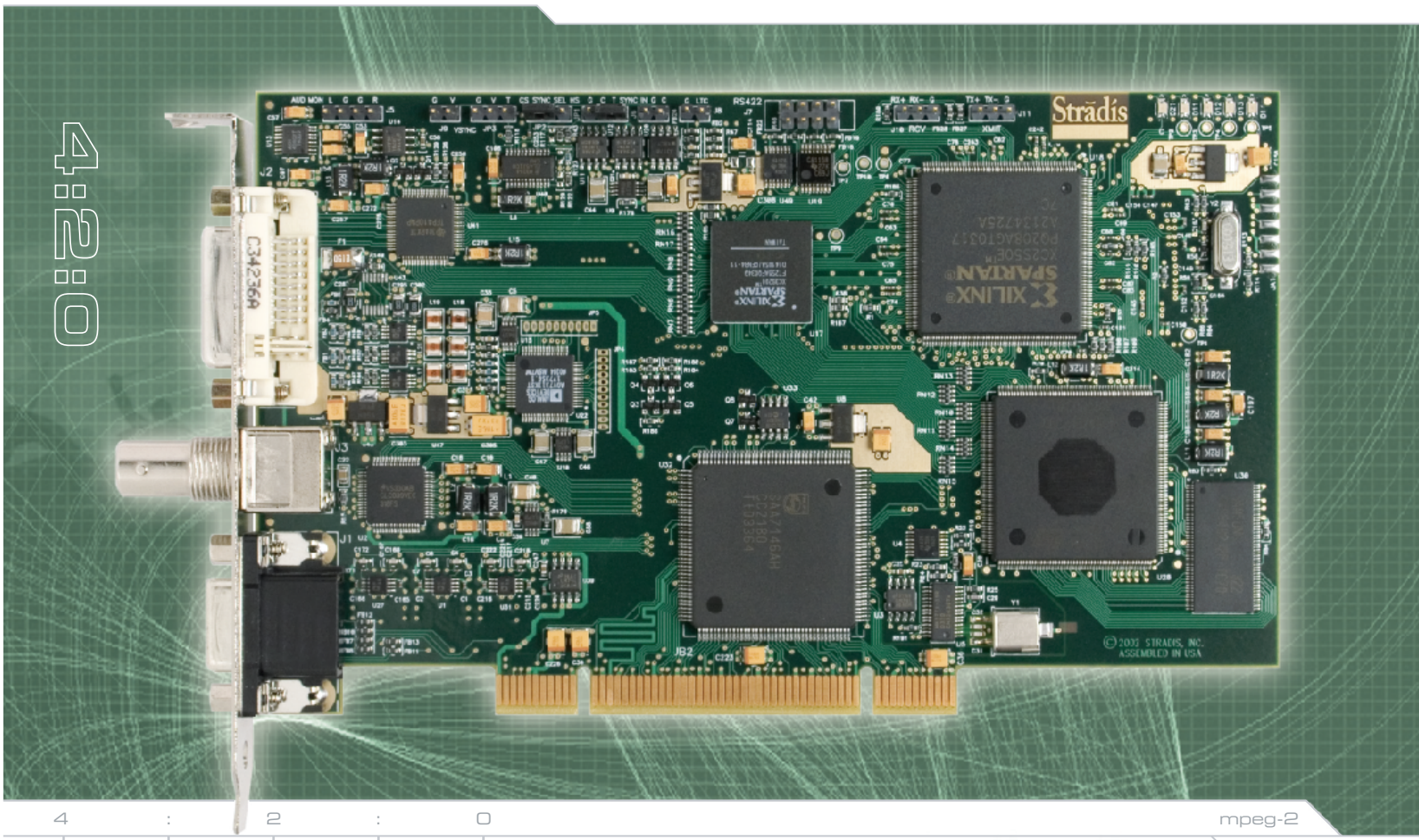
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Stradis HDM500(e)* at our website: ***Click HERE***

Stradis

HDM500

High-Definition MPEG-2 Decoder



professional performance for world-class applications

With a proven history of high quality output, versatility and performance, Stradis has long been the standard-definition MPEG decoder of choice for applications requiring true broadcast quality. Now the HDM500 High-Definition MPEG-2 Decoder delivers comparable performance in applications requiring High-Definition.

The Stradis HDM500 High-Definition MPEG-2 Decoder. Professional performance for world-class applications.

Easy Integration

The Stradis Application Programming interface (API) makes integrating the HDM500 into video systems fast and easy, and gives applications complete control over all HDM500 functions. The API supports multiple HDM500 decoders in a single computer with synchronized playback across all cards.

Professional Performance

The Stradis HDM500 High-Definition MPEG-2 Decoder decodes MP@HL (4:2:0) video at up to 80 Mbps. It provides continuous, frame-accurate, seamless back-to-back playback of all standard MPEG-2 streams. All popular ATSC-compliant formats are supported: 1920x1080i, 1280x720p, 720x576p, 720x576i, 720x480p and 720x480i. HDM500 applications include playback from disk for server applications and real-time decoding from a satellite or terrestrial network.

Multiple Video Outputs

The HDM500 High-Definition MPEG-2 Decoder has three video outputs for maximum flexibility. Use the High-Definition Serial Digital Interface (SMPTE 292M) video output and the Digital Visual Interface (DVI) or the analog RGB (or YPbPr) output. The video image can also be displayed on the computer's VGA monitor (in lower resolution to conserve PCI bus bandwidth).

Key Features

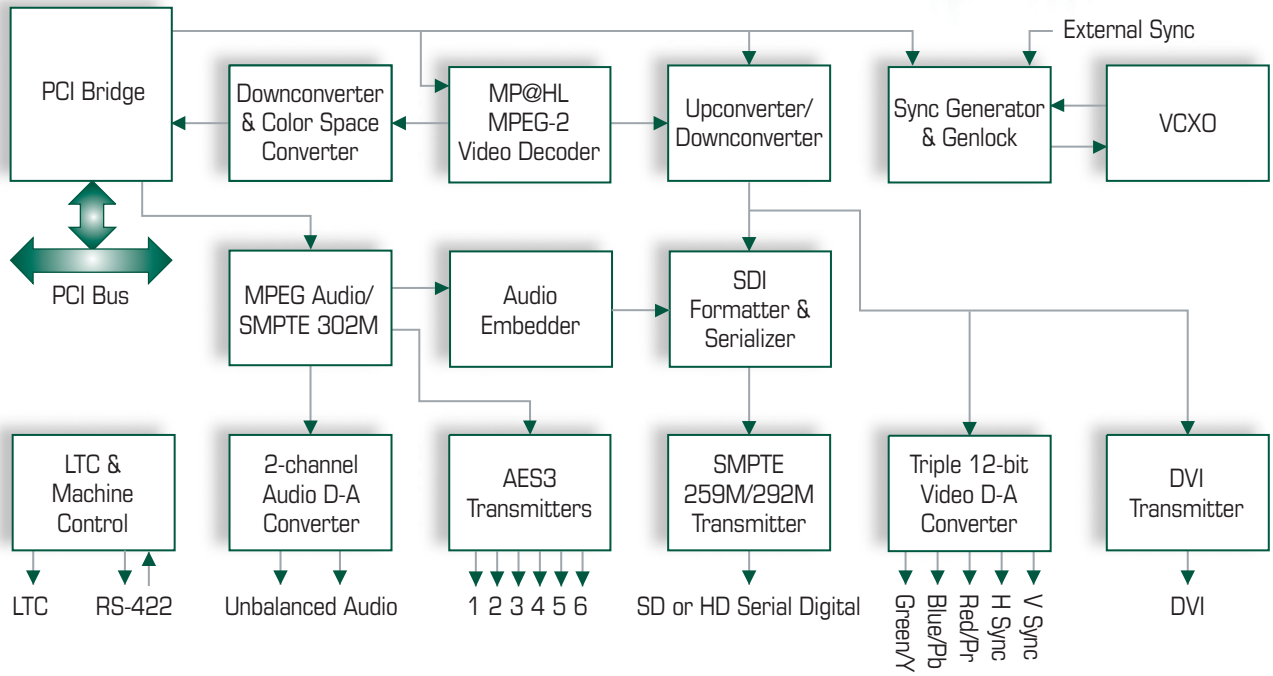
With the HDM500, your MPEG video application can offer:

- Continuous, seamless back-to-back playback of multiple MPEG streams (which may be in different formats: Transport, Program, System or Elementary streams) in all popular ATSC-compliant formats including 1920x1080i, 1280x720p, 720x576p, 720x576i, 720x480p and 720x480i
- High-quality conversion of source video to selected display format. Lock the output to one format and all outputs will be in that format, regardless of the source format
- Frame-accurate, synchronized playback across multiple decoders
- High-speed, random access and display of any I-Frame in an MPEG file for variable speed reverse and forward play, plus seamless switching to any I-frame of another stream
- PCR-based clock recovery for 24/7/365 real-time stream reception for continuous decoding of streams received from any common delivery mechanism, including satellite, LAN, and ATM networks
- Complete control over all HDM500 functions via the API for Microsoft Windows NT, Windows 2000, and Windows XP. Applications can access the API via a C interface or by using the __stdcall calling convention
- API compatibility with all Stradis SDM series standard-definition MPEG Decoders

Additional features for professional MPEG decoding and output:

- Still picture display from bit-map files with transition effects and simultaneous audio playback for "slide shows"
- True-color graphics over video or still pictures with keying or indexed color with blending
- Digital control of video saturation, brightness, contrast, and gamma
- Genlock (external framelock synchronization) input
- Hardware Audio/Video synchronization
- High-Definition Serial Digital Interface (SMPTE 292M) video output with 12 channels of embedded audio
- 6 AES3 digital audio outputs, may be used as 12 discrete audio channels or 4 may be used as IEC 61937/SMPTE 337M-2000 digital audio outputs to Dolby Digital® (AC-3) or MPEG Multichannel® audio decoders
- One pair of unbalanced analog audio outputs for monitoring
- Machine Control via remote connector (9-Pin, RS-422A) can be configured as either "Controller" or "Device"
- Linear Time Code (LTC) output based on stream time codes or synthesized by the API
- Letterbox and pan-and-scan options for displaying 16:9 images on a 4:3 display
- Support for extraction of EIA 608 / EIA 708 closed captions with captions inserted into HD-SDI in accordance with SMPTE 334M
- API provides three interface levels: RateBuffer, Demux, and File
- DirectShow® filters for compressed data input to the Stradis decoder
- SMPTE 302M-2002 support for uncompressed digital audio in the Transport, Program, and System streams
- Wave file playback and raw PCM audio playback
- Audio "voice-over" capability allows the application to replace the audio from the main multiplexed stream with another audio stream
- Virtual streams based on a single, repeated I-Frame that can be seamlessly played back-to-back with other MPEG streams
- Decryption function for file-based decryption using Stradis-supplied or user-definable algorithms
- Video capture interface for capturing decoded video output in lower resolution and placing it into PC memory
- Video image can be displayed on the computer's VGA monitor in lower resolution to conserve PCI bus bandwidth

4 : 2 : 0

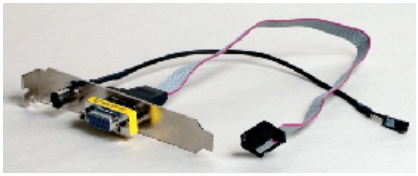


Stradis HDM500 Decoder Operation Highlights

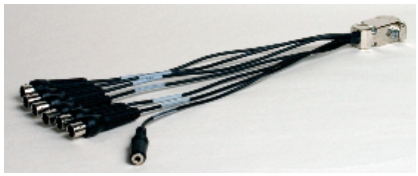
- All decoding takes place in hardware
- 12-bit Video D/A, 2x oversampled
- Decodes MPEG audio (up to eight output channels) in parallel with MPEG video
- Supports SMPTE 302M-2002 uncompressed audio (up to 12 channels)
- IEC 61937/SMPTE 337M-2000 compressed digital audio output of AC-3 – ATSC A/52 on up to four AES3 outputs
- VCXO with clock recovery for streams received by satellite, LAN, ATM or any transport delivery mechanism
- Serial Digital Interface (SMPTE 292M or SMPTE259M-C) video output with up to 12 channels of embedded audio, plus DVI and analog RGB (or YPbPr) outputs

HDM500

High-Definition MPEG-2 Decoder



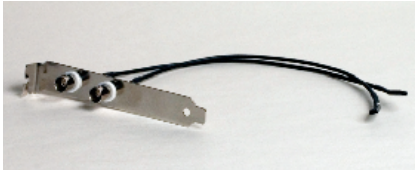
Optional SACO14 Bracket for LTC and RS422



Optional SACO15 Digital Audio Breakout Cable

Specifications

MPEG Streams	ISO/IEC 13818 and ISO/IEC 11172 compliant. Accepts ATSC-compliant MPEG-2 Elementary, Packetized Elementary (PES), Transport and Program Streams and MPEG-1 System Streams
MPEG Video	Decodes MP@ML or MP@HL (4:2:0) up to 80 Mbps
Digital Bitstream Input	Through the PCI bus using bus mastering and burst transfer mode
Digital Video Outputs	SMPTE 292M digital video output, with embedded audio - BNC connector Can be optionally configured as SMPTE259M-C when 480i or 576i output formats are selected DVI (Digital Visual Interface) output via DVI-I Digital/Analog Connector
Analog Video Outputs	Can be configured as either SMPTE 274M or 296M (RGB with sync-on-all or YPbPr with sync-on-Y), RGBHV, SPMTE 253M (RGB with sync-on-all), SMPTE 170M NTSC, ITU-R BT.470 PAL or S-Video (Y/C) via DVI-I connector
Digital Audio Output	6 AES-3 outputs, 75 ohms, unbalanced (SMPTE 276M-1995), via DB15-HD connector, 4 may be configured as IEC 61937/SMPTE 337M-2000 Digital audio outputs
Analog Audio Output	1 pair unbalanced audio, via DB15-HD connector or MPC (CD-ROM style) header connector
LTC	2V P-P, 1K ohm, BNC connector with optional SACO14
Machine Control	9-Pin, RS-422A can be configured as either "Controller" or "Device"
Genlock	Locks to the H-sync and V-sync, allows variable delay about the H-sync
On-Screen Display	Up to 24 bits per pixel or indexed color with blending
Host System Requirements	Pentium-based PC with an available PCI short card slot conforming to specification revision 2.1 running Windows NT 4.0, or greater, with a VGA display adapter supporting Microsoft® Direct Draw mode Disk transfer rate may limit the maximum sustained MPEG data rate achievable
Power requirements	3.3v (5 W typical), 5v (1.6 W typical), 12v (1.6 W typical), -12v (0.2 W typical)
Size	Standard PCI short card, 6.875 in. (174.63 mm) by 4.2 in. (106.68 mm), less connectors
Regulatory Approvals	FCC Part 15, Class A. CISPR 22/EN55022, Class A. CISPR 22/EN55024 (98)



Optional SACO17 Bracket for sync input



Optional SACO18 DVI-I to VGA Adapter



Optional SACO19 Analog Video Cable

Notice: Use of this product is expressly prohibited without a license under applicable patents marked on this product, or on the container and user documentation for this product. Additional information is available at www.mpegla.com. Trademarks: Stradis is a registered trademark of Stradis, Inc. Other product names may be trademarks of their respective companies. Copyright 2004 Stradis, Inc. All rights reserved. Stradis reserves the right to provide you with the finest products available to date. Engineering enhancements are ongoing and may not be reflected in the pictures and specifications on this document. Printed in the U.S.A.

04/04

Stradis, Inc.
1800 Century Blvd. NE Ste 1225
Atlanta, GA 30345-3218 USA
+1.404.320.0110
+1.404.320.3132 Telefax
info@stradis.com
www.stradis.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP