



close – sharp – real



MVC10x MPEG-2 HD Decoder PCI Cards

**YOUR PARTNER
FOR PROFESSIONAL
HD SOLUTIONS**

MikroM's HD Decoder products MVC10x are professional PCI bus cards perfectly suiting all demands in HD playback and streaming applications with standard PC systems. MPEG-2 data stored on hard disk, from live feeds or streaming sources easily can be brought to display on modern HD flat screens or projectors.

The MVC10x family allows MPEG-2 MP@HL video decoding up to 80 Mbps and processes various audio formats. All relevant HD video formats like 1080i or 720p and all usual frame-rates including are supported.

The MVC10x hardware requires low PC performance, making these cards attractive for cost-effective multi-channel play-out server applications.

The API - identical for Windows and Linux - allows rapid porting between operating systems. Up to four cards are supported in one PC, optional with frame-accurate synchronization for 3D and split-screen applications.

MikroM offers each card in two configurations: Light and Standard Edition. The Standard Edition (SE) is the ideal solution for high-end applications awaiting 80 Mbps and support of cinema features like and uncompressed audio. The Light Edition (LE) is targeted for ATSC/DVB broadcast requirements with bit rates up to 40 Mbps – first class for advertisement and presentation.

All cards can be functional upgraded and customized in-field by software.



MVC100



MVC101

VERSIONS

MVC100: DVI-I

MVC101: SD/HD-SDI

MVC102: DVI-I w/ Analog Audio

KEY FEATURES

MPEG-2 HD decoding for all main ATSC and DVB formats

True 80 Mbps video bit rate

Supports interlace, progressive and segmented frame video formats

Precise and adjustable AVV synchronization

MVC102: Onboard audio decoder w/analog audio output

Upgradeable and customizable hardware architecture

Unique API for Windows and Linux

Optional: Frame-accurate, multi-channel synchronization

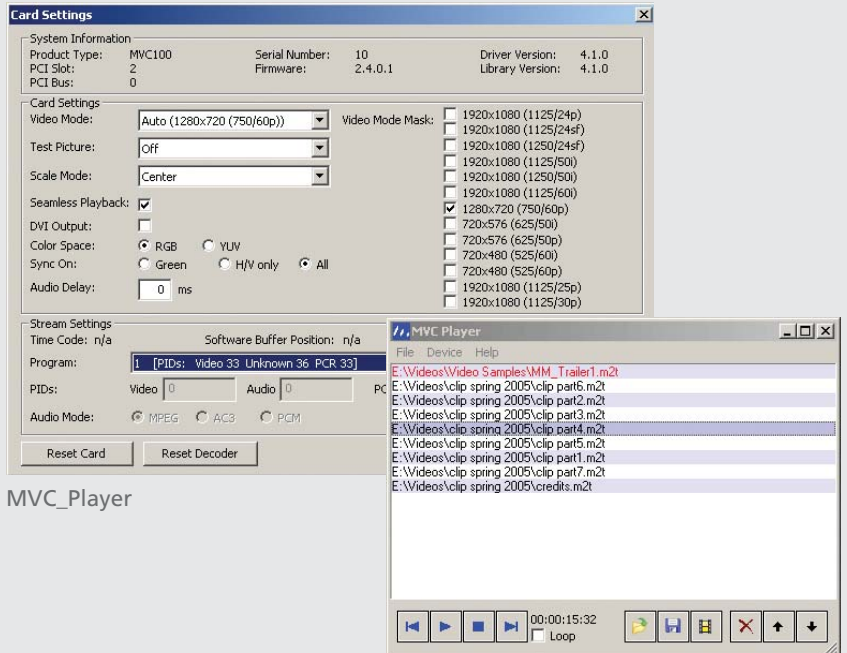
APPLICATIONS

Advertising

D-Cinema, E-Cinema

Presentation

Multi-channel Play-out Server



TECHNICAL SPECIFICATION

VIDEO DECODING AND FORMATS

MPEG-2 MP@HL (ISO/IEC 13818) TS, PS
 1080/30p, 1080/60i, 1080/25p, 1080/50i,
 1080/24p, 1080/24sf, 720/60p, 720/50p,
 576/50p, 480/60p, 576/50i, 480/60i
 1/1.001 frame rates supported
 Video Up/Down-Scaling

AUDIO PROCESSING/DECODING

Bit stream pass-through (MPEG, Dolby
 AC-3 5.1, Dolby E)
 8ch PCM pass-through (SMPTE302M)
 MPEG, Dolby AC-3 Stereo/5.1 (Downmix)
 Audio Decoder [MVC102 only]

DECODER CONTROL

Automatic/Manual decoder setup and
 configuration
 Automatic/Manual channel selection
 Decoder settings and playback process
 controllable via API

SOFTWARE

Driver/SDK with demo applications
 and examples for Windows2000/XP
 and Linux Kernel 2.4
 Unique API [Windows, Linux]
 DirectX 8.1 DirectShow Filter [Windows]

SYSTEM REQUIREMENTS

Pentium 300 MHz
 128 MB memory, 16 MB disc space

INPUT

PCI 2.1, 32-bit, 33 MHz, 3.3 V / 5 V

OUTPUT

Digital Video Output: YUV
 (SMPTE292M), SD/HD-SDI, 1 BNC
 [MVC101 only]

Analog Video Output: Switchable RGB-
 HV/YUV (SMPTE274M, SMPTE293M,
 SMPTE296M), Sync-on-HV/Green/All

Digital Video Output: RGB-HV (DVI
 1.0), 1 DVI-I [MVC100/MVC102 only]

Digital Audio Output: 1ch Audio
 Bitstream (IEC61937), optical S/P-DIF,
 1 TosLink

Digital Audio Output: 4ch AES/EBU
 digital electrical balanced, 1 DSUB25
 [MVC101 only]

Analog Audio Output: Line out, 2 RCA
 [MVC102 only]

PHYSICAL

Dimensions (PCB): 242x98 mm,
 Weight: 186 g/0.4 lbs

OPERATING CONDITIONS

Temperature: 0 °C to 40 °C
 (32 °F to 104 °F)
 Rel. Humidity: 5 to 90 % (non-cond.)

COMPLIANCE

CE, CSA, FCC

MikroM Mikroelektronik für
 Multimedia GmbH

Dovestraße 1
 10587 Berlin
 Germany

Tel: +49 30 398839 0
 Fax: +49 30 398839 29

www.mikrom.com
 info@mikrom.com

MikroM maintains a policy of product
 improvement and reserves the right to
 modify the specifications without prior
 notice. Windows, Linux, DirectX, Pentium,
 Dolby AC-3 and Dolby E are trademarks of
 their respective owners.

© MikroM GmbH 2004. All rights reserved.