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.

**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 A/V 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, Dolby E)
8ch PCM pass-through (SMPT302M)
MPEG, Dolby AC-3 Stereo/S.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
(SMPT292M), SD/HD-SDI, 1 BNC
[MVC101 only]
Analog Video 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