Sigma Designs’ NetStream 2000 is a PCI-based add-in card that provides high performance MPEG-1 and MPEG-2 decoding to play streaming video or DVD titles on mainstream PCs. Based on our award-winning REALmagic® Video Streaming Technology, the NetStream 2000 delivers premium audio and video experiences, and supports advanced video overlay technology and progressive VGA video output. NetStream 2000 provides an ideal PC-based solution for advanced video-on-demand and streaming video applications where internet and computer applications are also part of the TV-based client.

- Reliably renders streaming video from Ethernet networks for video-on-demand (VOD), IP multicast, and interactive MPEG applications.
- Provides analog overlay to work with virtually any VGA graphics card.
- High precision output to TV (composite, S-video, and YPbPr).
- Provides dependable hardware playback for multiple standards including MPEG-1 or MPEG-2 files, DVD, VideoCD, SVCD, and interactive titles.
- Features REALmagic Video Streaming Technology including full precision decoding, scaling, and output for the highest quality video experience.
- Provides advanced audio output features such as Dolby® Digital or DTS® surround sound (through S/PDIF) for high fidelity sound reproduction.
FEATURES AND SPECIFICATIONS

Video:
• Sigma EM8400 MPEG-2 MP@ML decoder
• Sigma EM9010 analog overlay technology for compatibility with all VGA cards
• Supports up to 15Mbps data rate
• Displays non-interlaced full motion video at full-screen or in a resizeable window from 16x16 up to 1600x1200 on a capable VGA monitor
• Plays DVD Video, MPEG-2, and MPEG-1 interactive titles
• Support for VideoCD 1.0 and 2.0
• Full screen NTSC/PAL TV output
• Frame rate conversion of NTSC titles on PAL TVs, and PAL titles on NTSC TVs
• Brightness, contrast, and color saturation controls for VGA and TV display

Audio:
• Dolby Digital via S/PDIF
• Dolby ProLogic downmix via Stereo output
• DTS Surround Sound via S/PDIF
• MPEG-1 Layers I and II
• PCM audio

System Requirements:
• Intel® or AMD-based PC with 133MHz or higher CPU
• Microsoft® Windows® 95, 98, Me, NT, 2000, XP or Linux
• PCI 2.1 compliant expansion slot
• Plug and Play BIOS support
• 32MB RAM and 2MB free hard disk space
• SVGA graphics card
• DVD-ROM drive (for DVD-Video playback)
• Amplified stereo speakers (Dolby Digital, Dolby ProLogic, or DTS receiver and speakers required for surround sound)

Connectors:
• Mini stereo jack (audio output)
• 15-pin VGA Out
• YPbPr, S-video and Composite video output
• RCA Coaxial for S/PDIF Out (Dolby Digital and DTS Surround Sound)

Special Hardware Features:
• Hardware decoding of both audio and video
• Low latency decoding modes for sub-second channel changes of multicast and on-demand video
• Hardware sync of audio and video
• Fully adjustable audio PLL
• 256 color, full-screen On-Screen Display (OSD) controller, with 4-bit alpha blending
• Analog YPbPr (480i/576i) or S-video and composite, RGB VGA video outputs

Special Software Features:
• Supports Windows 95, 98, Me, NT, 2000, XP and Linux
• DirectShow support for interactive local and streaming video
• Support for Transport Streams
• Trick Play Modes with DVDs and compatible video servers
• Includes DVD Station software for playing and navigating DVD-Videodiscs

MPEG Formats Supported
• Plays MPEG-1 audio and video System streams
• Plays MPEG-2 MP@ML PES, Program, Transport streams
• Supports SIF, Half-D1, 2/3 D1 and Full CCIR 601 resolution streams
• Supports MPEG in NTSC and PAL formats