

**Deliver broadcast-quality video over your network**

# NetStream 2000



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.

## NetStream 2000 Product Specs:

### 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
- 9-pin DIN VGA In (from VGA card)
- YPbPr, S-video and Composite video out
- 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-Video discs

#### 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

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