

Atlantis-I PCI

Internal (PCI) AV & DV Capture and Playback Device for the PC

About Emuzed

Emuzed is a leading provider of multimedia solutions to PC OEMs. Founded in 1999, the company is headed by a management team with a successful track record and significant multimedia experience. We offer complete solutions for PC multimedia capture and management including hardware, software, as well as industrial designs. Emuzed products are robust and of the highest quality, and we provide a flexible business model that allows OEMs to buy finished products or license designs for manufacturing.

Atlantis-I PCI Product Overview

Atlantis-I PCI is a very high quality, low cost, internal Analog Video & Audio (AV) and Digital Video (DV) I/O card for the PC. The unit installs in the PC in a standard half size PCI card slot. Compression is accomplished via software, and supports DV, MPEG-1, MPEG-2, MPEG-4, WMF, and more depending on software codec availability. The product supports a variety of 3rd party capture, editing, and authoring software applications.

General Feature Set

- DV capture and playback
- AV capture and playback
- Full D-1 video and PCM audio capture and playback
- Supports NTSC, PAL, and SECAM standards
- Exceeds PC fast boot requirements



Atlantis-I PCI



Atlantis-I PCI Break-Out-Box



NOTE: These specifications are subject to change without notice.

Features

Audio and Video I/O

The following Audio and Video I/O connectors and functionality are supported on the unit:

- 15 pin D type high density female BOB (Break-Out-Box) connector
- On the break-out-box:
 - One Composite Video Input (RCA)
 - One S-Video Input (4-pin DIN connector)
 - One Stereo Audio Input (dual RCA)
 - One Composite Video Output (RCA)
 - One S-Video Output (4-pin DIN connector)
 - One Stereo Audio Output (dual RCA)
- Two IEEE 1394a compatible ports (6-pin)

Analog Video

The device has 1 set of video inputs and also 1 set of video outputs. Under SW control, the user can select either:

- Composite Video input/output
- S-Video input/output

The device also supports the pass through mode from video input to video output for real-time preview during the capture mode.

The device supports YUV422 video format (UYVY) for capture and playback at full D1 and ¼ D1 resolution. The following video sizes are supported:

- 720 x 480 and 352 x 240 for NTSC
- 720 x 576 and 352 x 288 for PAL & SECAM

Analog Audio

The device has 1 set of stereo audio input and also 1 set of stereo audio output. Under software control, the user to select one of following sampling rates:

- 32.0 kHz
- 44.1 kHz
- 48.0 kHz

The device also supports the pass through mode from input audio port to output audio port for real-time preview during the capture mode.

Digital Video

The device has two OHCI compatible IEEE 1394a ports. These ports support various IEEE 1394a devices such as DV Camcorder, external DVD Recorder, etc. These ports are also capable of supplying power over the bus.

PCI Interface

The Atlantis-I board supports a 32-bit, 33MHz PCI interface (v2.1).

Form factor

The PCI card is a half slot sized board measuring 5.5" x 4.1".

Power

The board uses 5V from the PCI bus. It draws 780ma current and dissipates 4W power.
The board also uses 12V from the PCI bus to supply power to devices connected to IEEE 1394 ports.

3rd Party Software



Atlantis-I PCI is compatible with Roxio VideoWave Movie Creator. Movie Creator allows for easy AV / DV capture, editing and burning to CD or DVD. Key features:



Capture:

- Supports DV and real-time MPEG-2 capture. Automatic scene detection feature lets you cut video into thumbnail scenes to simplify the editing process further.

Edit:

- Automatic-editing technology allows for easy editing. Simply transfer your video to your computer, add your favorite music track and choose a creative style that best suits your content. Choose introduction and ending templates, personalize the titles, drag and drop video clips. Fine-tune brightness, color and contrast or play with striking special effects like emboss, ripple, mirror, 3-D shapes and more.

Burn:

- Simply choose a DVD menu template, drag and drop video clips, and you're ready to burn. Built on Roxio's leading CD/DVD burning technology.

Alternatively, Atlantis-I may be bundled with various other 3rd party video capture and editing software packages. Please contact your Emuzed sales representative for more information.

Drivers

The drivers are WDM compliant and can be integrated with a variety of 3rd party applications with minimal engineering effort. The drivers work under Windows 98SE, Windows ME, Windows 2000 and Windows XP.

Customization

Emuzed will customize the Atlantis drivers as required by the OEM.

Minimum PC Requirements

The requirements for the PC will be set by the SW application(s) more than by the hardware, and as such they depend on what 3rd party software is selected by the OEM. The Atlantis-I PCI driver requires at least:

- Pentium IV 1.5 GHz
- 256 MB RAM
- Graphics board with DirectX 8 support
- Sound board with DirectX 8 support
- CD-ROM drive
- IDE Hard drive with master mode support
- Free full height, half width PCI slot