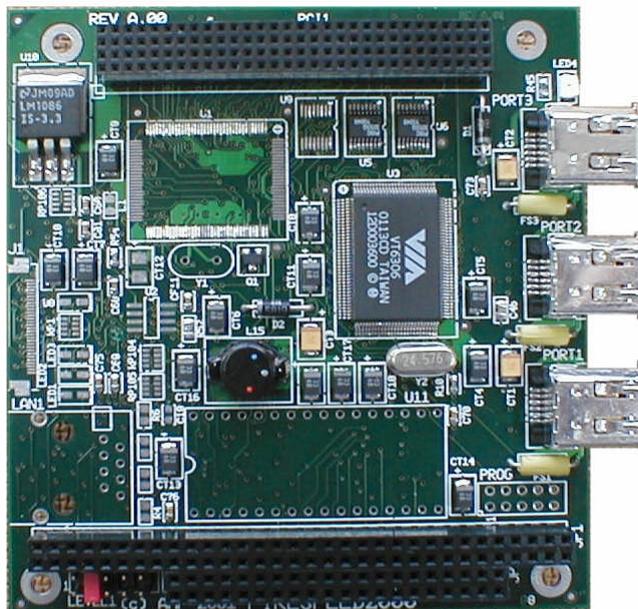


## FireSpeed2000 IEEE-1394 FireWire Controller for PC/104+



### General Description

The **FireSpeed2000** is a high performance Controller providing 3 serial ports conforming to the IEEE-1394 OHCI specification - popularly known as FireWire. The FireSpeed2000 provides an ideal interface for attaching high speed Audio, Video and Storage peripherals to an embedded system. Automatic detection and configuration of devices (without the need for on-board jumpers) ensures robust system operations and high reliability. The FireSpeed2000 provides a distinct advantage over other communications and interfacing controllers by allowing multiple devices to be attached simultaneously on the high speed serial bus. Three serial ports are provided enabling up to 63 devices to be connected with cable lengths of over 4M. The FireSpeed2000 is supported by a suite of drivers for Windows98/NT/CE/2000 and Linux. The FireSpeed2000 is an ideal solution for solid-state video recording, machine vision, digital image capture and processing and hot-pluggable storage peripheral interfacing.

### Features

- Meets IEEE-1394 Fire Wire Standard
- Three high speed Serial Interface
- Speeds of 100/200/400 MBits/sec
- Link up to 63 devices together
- Video/Audio/Mass Storage auto-detection
- Hot pluggable connections
- Multiple FireSpeed2000 cards per system
- High Performance PC/104+ Bus Master
- Drivers for Win95/98/NT/2000, Linux
- Compact 3.6 x 3.8in PC/104+ form factor

### Applications

- Solid-State Digital Video Recorder
- Digital Camera Interfacing
- Hot-pluggable Disk Storage
- Portable and mobile data storage
- Remote Video Surveillance
- Medical and Industrial imaging
- Robotic systems and OCR
- Disc based Video Recorder
- Video Acquisition and Analysis

\*Rev A.01 subject to change without notification



## **FireSpeed2000 IEEE-1394 FireWire Controller for PC/104+**

<b>PC104+ Bus Interface</b>	Compliant with PCI Rev 2.1 132MBytes/sec bandwidth at 33.33 MHz bus speed PCI Bus Master supporting DMA PCI Slave for access to internal registers PCI Power Management compliant
<b>IEEE 1394 Link Layer</b>	Performs function of all IEEE-1394 Cycle Master IEEE-1394 transfer rates of 100/200/400Mbits/sec
<b>Physical Layer Interface</b>	Supports provisions for IEEE-1394 high performance serial bus Up to 3 High Speed Serial ports supported Data rates of 100, 200 or 400Mbits/sec Up to 63 devices on the IEEE-1394 bus Hot-pluggable attachment of devices Cable length up to 4.2M supported at up to 400Mbits/sec rate Standard 6-way IEEE-1394 Connectors for self-powered or non-powered devices
<b>Miscellaneous</b>	Single +5V at less than 600mA Routes +12V from PC/104+ bus to power the FireWire Cable Operating Temp of 0 to 60degC (Extended Temp option) Standard 3.6 x 3.8in PC/104+ form factor
<b>Software</b>	Drivers for Windows95/98/NT/2000, Linux Sample video capture application in C/C++ source code Other Operating Systems such as QNX, PharLap, pSOS, etc can be supported on request
<b>Ordering Information</b>	Order as FireSpeed2000

