

The nanoFlame is a high performance controller that provides 2 ports conforming to the IEEE-1394 OHCI specification—popularly known as FireWire.

The nanoFlame is an ideal way to interface high speed digital video and audio, and storage to embedded systems with a miniPCI-express socket. Automatic detection and configuration of device data speeds and transmitting both asynchronous and isochronous (real-time) data packets ensures robust system operation and high reliability. The dual ports allows multiple devices to be attached simultaneously on the high speed bus.

The nanoFlame is supported natively in most OS including Windows and Linux. Other operating system are available by request.



nanoFlame

Features

- ◆ Meets IEEE-1394a "FireWire" standard.
- ◆ 2 High speed ports.
- ◆ Video/Audio/Mass storage auto detection
- ◆ Efficient DMA engine for high performance data transfer
- ◆ Speeds of 100/200/400 Mbits/sec
- ◆ Hot pluggable connections
- ◆ Super Low Power operation
- ◆ Very small footprint miniPCI-express form factor.
- ◆ Drivers for Windows, Linux (other OS by request)

Applications

Solid-State Digital Video Server
Vehicle-based Video Codec
Law Enforcement
Crime Scene Recording
Remote Video Surveillance
Multi-camera Security Application
Asset Monitoring
Traffic Monitoring and Control
Video Acquisition and Analytics

PRELIMINARY INFORMATION (Rev A.00)

Subject to change without notification

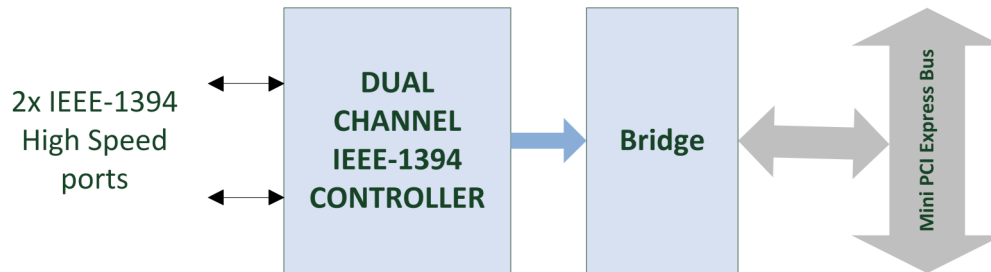
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THE EMBEDDED VIDEO EXPERTS



nanoFlame Functional Diagram

Technical Specification

mini-PCI Express Bus Interface

Full height MiniPCI Express card
Full compliance with PCI Express Revision 1.1

IEEE-1394 Function

Compliant with IEEE 1394a-2000, 1394-1995 and 1394a Open HCI
Compliant with 1394 Open HCI specification 1.0 and 1.1
Compliant with IEEE 1394-1995 specification release
Compliant with IEEE 1394a P2000

Physical Link Layer

2 High Speed Serial ports supported
Data rates of 100, 200 or 400Mbits/sec
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 devices

System Requirements

x86 Host Computer with spare miniPCI-Express socket

Miscellaneous

Standard full height miniPCI-Express form factor
Operating temp 0°C to 60°C
Operating temp -40°C to +85°C (extended temp option)

Software

Drivers for Windows, Linux
Other Operating Systems can be supported on request

Ordering Information

nanoFlame	IEEE-1394 Controller (0 to 60°C)
nanoFlame-Ext	IEEE-1394 Controller (-40°C to +85°C)

