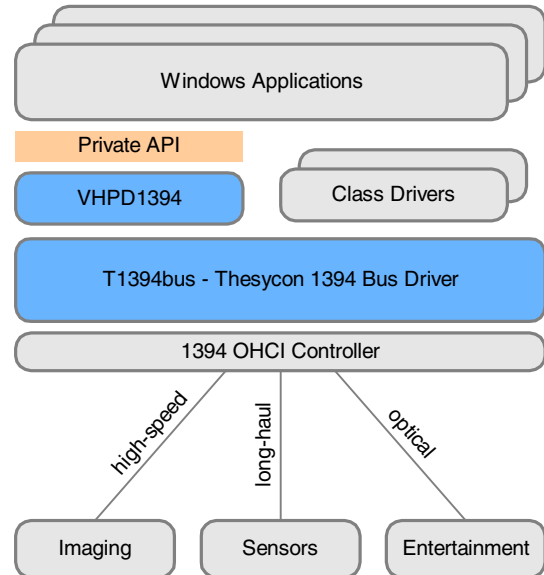


# IEEE1394 Bus Driver

## Industrial-grade, IEEE1394a / IEEE1394b compliant bus driver for Windows

Microsoft Windows operating systems include a bus driver and various class drivers to support the IEEE1394 high performance serial bus. However, current driver support is limited to controllers and devices that are compliant to the 1394a standard. The features introduced with the 1394b standard cannot be used in Windows based applications and device drivers. Furthermore, there are some known stability issues that cause problems in industrial and professional applications with high reliability demands.

Thesycon's alternative 1394 bus driver provides a solution to these problems. It replaces the Microsoft driver and exposes a compatible programming interface to upper layers. In-box class drivers and existing custom device drivers will continue to work.



### Full Standard Compliance

The T1394bus driver supports all current IEEE1394 standards. It implements topology parsing and automatic speed selection. Applications can achieve the maximum data transfer rate that is possible for a connection between any two nodes. This allows the use of high-speed, long-haul and optical connections as defined by the 1394b standard.

The bus driver supports OHCI-compliant host controllers. Its implementation conforms to the PCI driver model defined by WDM and is optimized for high-throughput, low CPU load and fault-tolerant operation.

### Premium Support

When issues arise in a particular target application then Thesycon's 1394 experts are willing to provide technical support. To meet specific application requirements, Thesycon offers to implement modifications, enhancements and optimizations.

Customers can license the source code of the driver and use it to implement specific features or for debugging purposes.

### Licensing

A runtime license is tied to a class of 1394 devices, e.g. Imaging class, and permits royalty-free distribution of the driver together with such devices. In addition, a source code license is available. For complete license conditions and prices please contact Thesycon.

### Features

- ❑ Conforms with the full set of current 1394 standards: IEEE1394-1995, IEEE1394a, IEEE1394b
- ❑ Supports OHCI-compliant 1394a and 1394b host controllers and speeds from S100 to S800
- ❑ Allows all types of PHY interfaces and connection media defined by the IEEE1394 standards
- ❑ Kernel-mode programming interface is compatible with Windows 1394 bus driver
- ❑ Compatible with in-box class drivers
- ❑ Robust and efficient design and implementation to fulfil high quality demands

Supported platforms	x86	x64
Windows 2000	✓	—
Windows XP	✓	✓
Windows XP Embedded	✓	—
Windows Server 2003	✓	✓
Windows Vista	✓	✓
Windows 7	✓	✓

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