DT-Open Layers for .NET

Powerful .NET-Compliant Class Library for Data Translation Hardware

Key Features

- Simple-to-use programming interface for all USB and PCI hardware.
- Full support for Visual Basic .NET and Visual C# and compatible with other .NET languages.
- Extensive example program support and documentation included.
- Easily configure all subsystem parameters.
- Reduce debug time with thorough error detection and reporting as well as explicit and meaningful error messages.
- Built using managed code, virtually eliminating memory leaks and providing type safety, bounds checking, and exception handling.
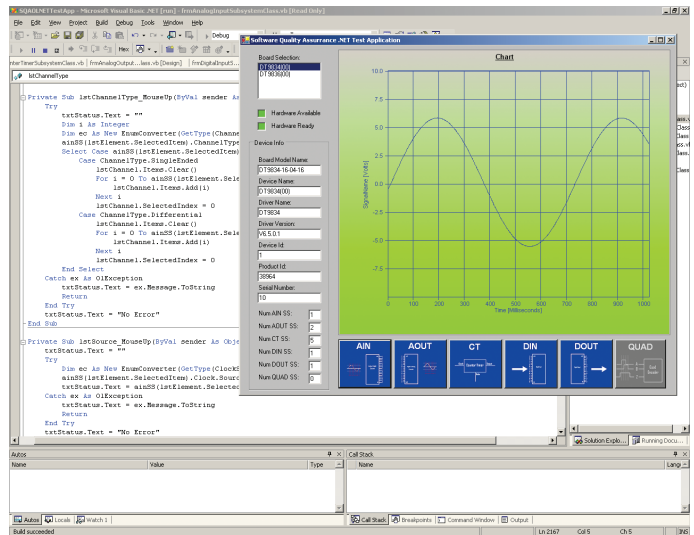- DT-Display for .NET included to plot data acquired from the Data Translation hardware.

Figure 1. With DT-Open Layers for .NET Class Library, you can create flexible programs in Visual C# and Visual Basic .NET.

Overview

DT-Open Layers for .NET Class Library is a native .NET collection of object-oriented classes for developing test and measurement applications in Microsoft Visual Studio 2003 - 2010. It provides a powerful yet simple-to-use programming interface to all Data Translation USB and PCI hardware.

Open Architecture Protects Your Investment

The library is fully compatible with the DT-Open Layers standard for developing integrated, modular application programs under Windows. Therefore, you can add support for a new data acquisition device at any time. Just add the new device driver, modify your code to incorporate the features of the new device, and then recompile the code. Any existing code remains unchanged so your time investment is not lost. Your code is completely portable to any other Data Translation data acquisition device.

Note: This library is not compatible with the DT-Open Layers Software Development Kit (SDK). Applications written using the DT-Open Layers SDK environment must be modified to comply fully with the DT-Open Layers for .NET Class Library.

Supported Languages

DT-Open Layers for .NET supports programs written in Visual Basic.NET and Visual C#.NET with a full complement of example programs and documentation. Other .NET languages are also compatible with the DT-Open Layers environment.
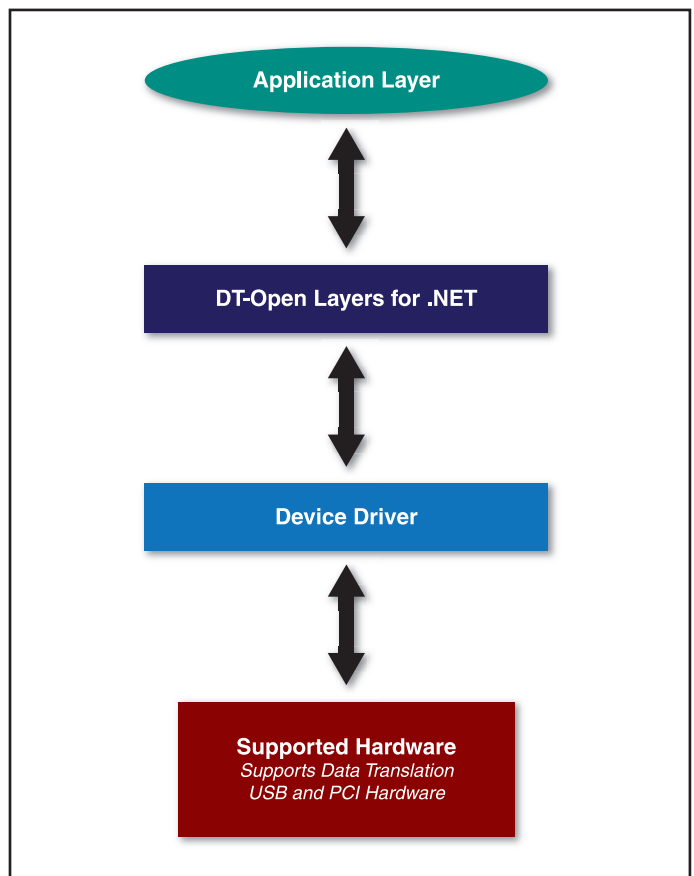

Figure 2. DT-Open Layers for .NET Class Library provides a standard environment for developing applications with Data Translation data acquisition devices.

Documentation

The DT-Open Layers for .NET manual describes how to get started using the DT-Open Layers for .NET Class Library to develop application programs for data acquisition devices that conform to the DT-Open Layers standard. The manual is provided in electronic (PDF) format on the Data Acquisition Omni CD. In addition, DT-Open Layers for .NET Class Library Online Help is integrated as part of the software.

Technical Support

Application engineers are available by phone and email during normal business hours to discuss your application requirements. Extensive product information, including drivers, example code, pin-outs, a searchable Knowledge Base, and much more, is available 24 hours a day on our web site at www.datatranslation.com.

Ordering Information

The DT-Open Layers for .NET library is available at no cost on the Data Acquisition Omni CD. It is also available for download at www.datatranslation.com. The following software is provided on the Data Acquisition OMNI CD for programming DT-Open Layers-compliant devices in Visual C# and Visual Basic .NET:

- DT-Open Layers for .NET Class Library – Provides properties, methods, and events for performing data acquisition operations.
- DT-Display for .NET Control – Provides a control for plotting data at high speed. You can use this control to plot data that was acquired from the DT-Open Layers for .NET Class Library.

These assemblies are supported under Windows XP (32-bit), Windows Vista (32-bit and 64-bit), and Windows 7 (32-bit and 64-bit).
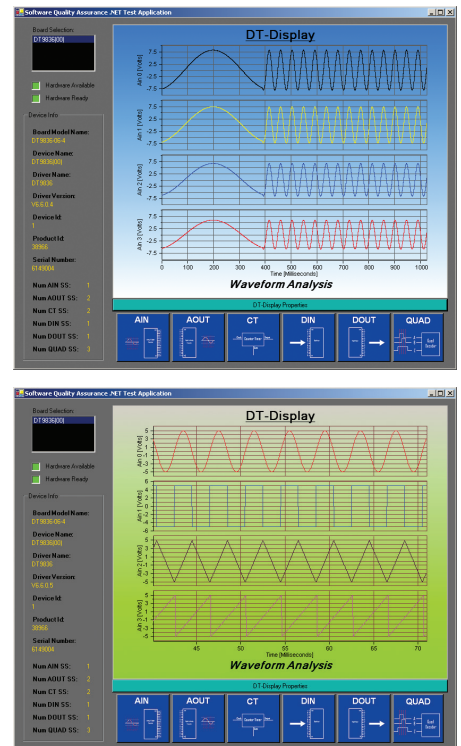

Figure 3. DT-Display is an easy-to-use, general purpose, high performance .NET control for displaying signals.

For more information about DT-Open Layers for .NET, please visit:
http://www.datatranslation.com/info/DTOLNET/

DATA TRANSLATION ®