

Installation Instructions

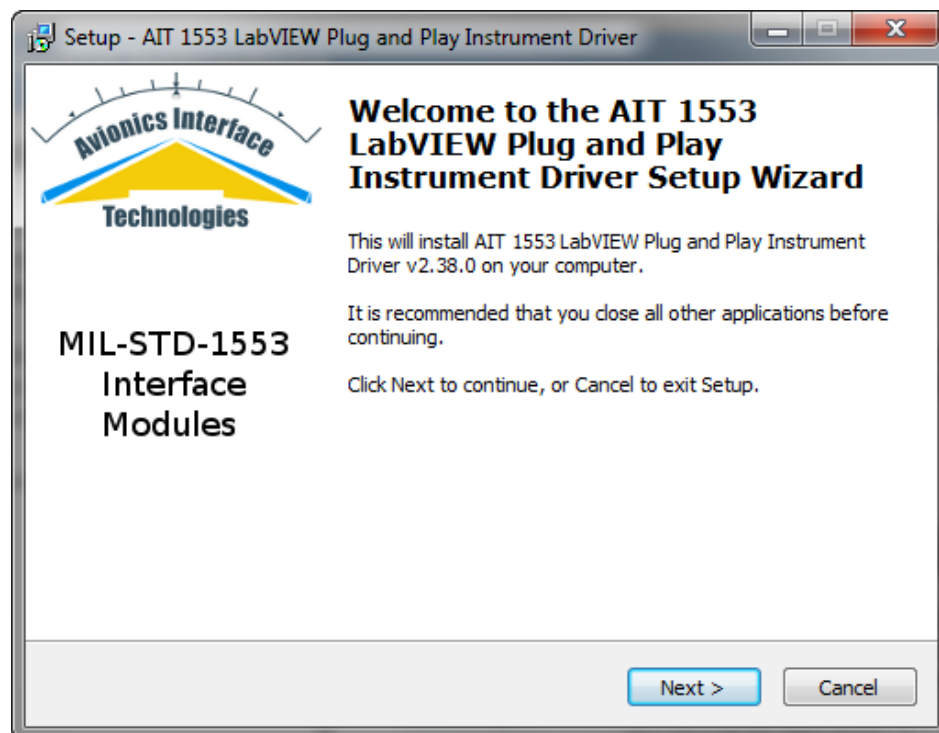
MIL-STD-1553 LabVIEW Plug & Play
Instrument Driver

V2.47.1

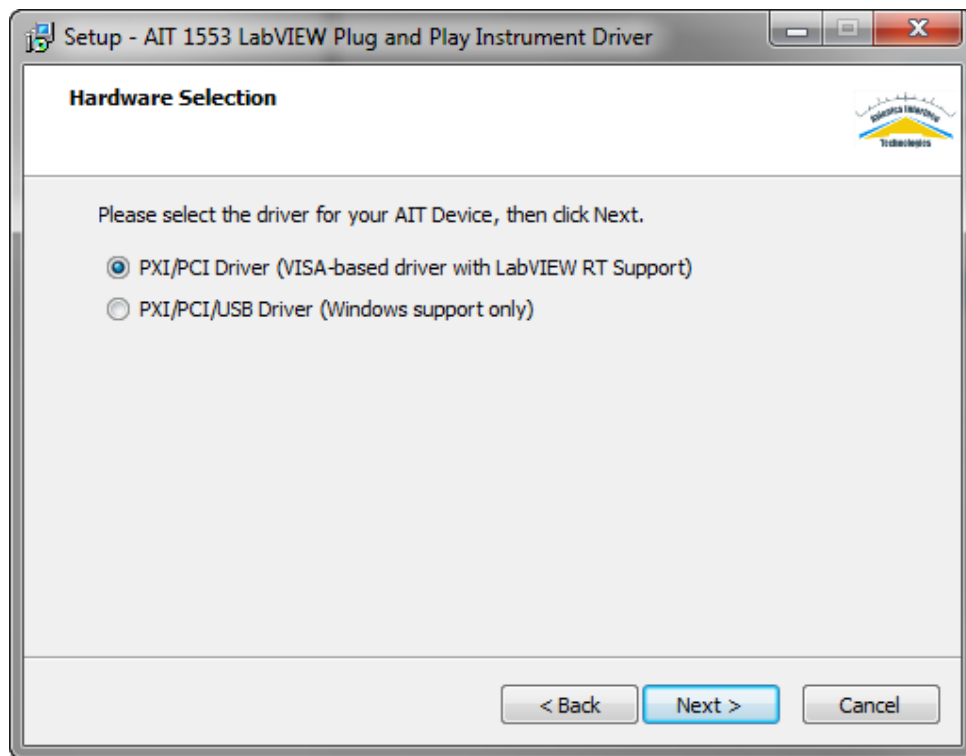


Installing the MIL-STD-1553 LabVIEW Plug & Play Instrument Driver Software

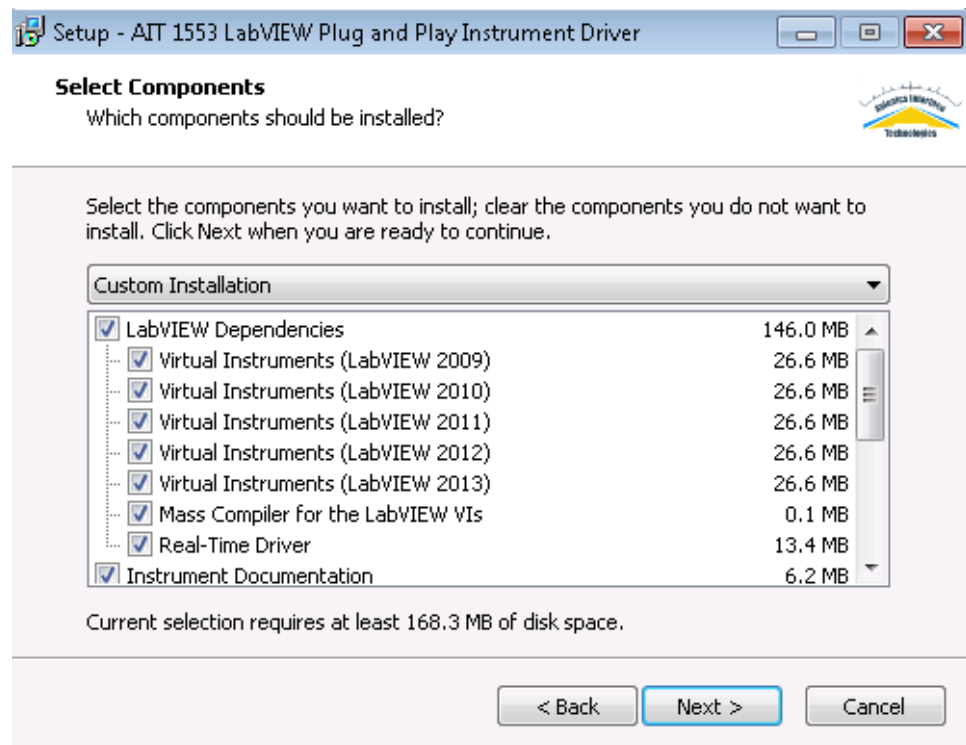
1. Before installing your MIL-STD-1553 hardware modules, insert the provided CD containing the MIL-STD-1553 LabVIEW Plug & Play Instrument Driver software. (Two CD's are provided. One, labeled MIL-STD-1553 LabVIEW Plug & Play Instrument Driver 32-bit, provides the software installation for support of 32-bit applications. The CD labeled MIL-STD-1553 LabVIEW Plug & Play Instrument Driver 64-bit, provides the software installation for support of 64-bit applications.) Or, you may download the software directly from the Aviftech website's download area as described in the Downloading AIT Software section.
2. If installing from a CD and if the CD drive has autorun enabled, the installer will start automatically. Otherwise, open My Computer, Select the CD drive and execute the executable (.exe) in the root directory of the CD. If installing from a download, execute the downloaded executable (.exe) to start the installation.
3. Follow the onscreen instructions, to begin the installation, press Next.



4. You will be prompted to select the driver interface. Choose PXI/PCI Driver to communicate with PXI, PCI, or PCIe hardware using the AIT VISA based driver. This option is required for use with LabVIEW RT. Choose the PXI/PCI/USB Driver to communicate with the AIT devices using the AIT Windows based driver. This options does not support LabVIEW RT.



5. You will be prompted to select the MIL-STD-1553 LabVIEW Plug & Play Instrument Driver components to install. The table below describes each of these components. after selecting all components that you wish to install, press Next.

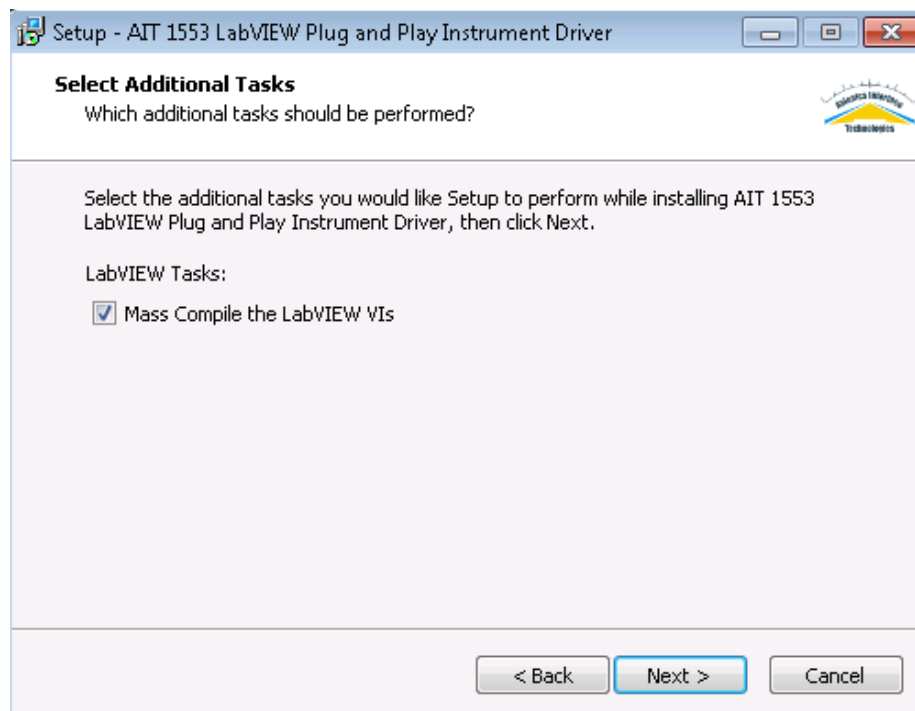


Component	Description
Virtual Instruments (LabVIEW	MIL-STD-1553 LabVIEW Instrument Driver Virtual

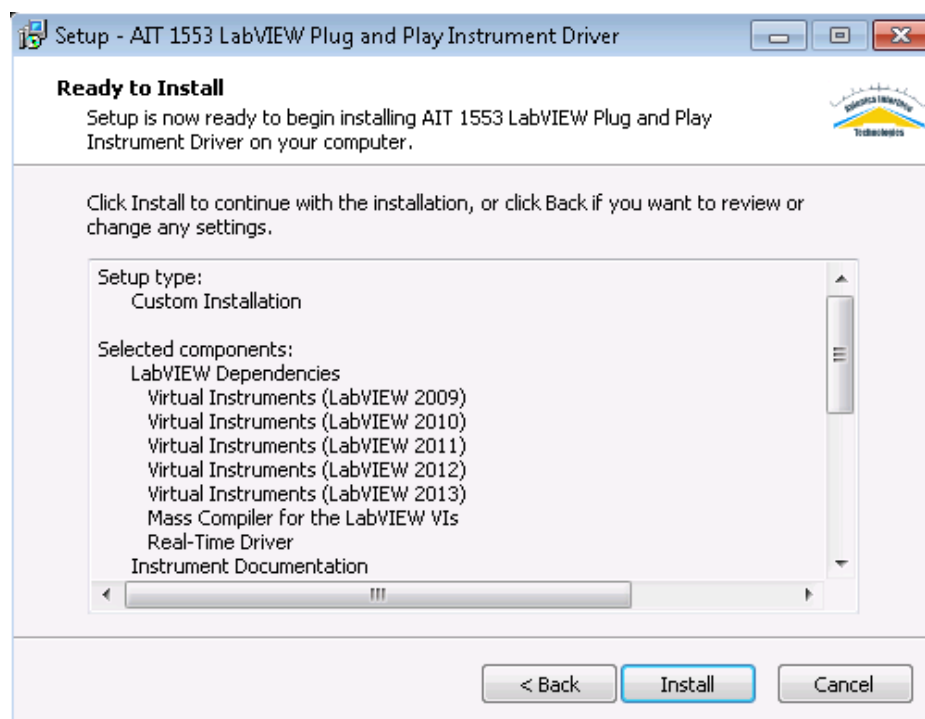
2009)	Instruments (VI's) for LabVIEW 2009
Virtual Instruments (LabVIEW 2010)	MIL-STD-1553 LabVIEW Instrument Driver VI's for LabVIEW 2010
Virtual Instruments (LabVIEW 2011)	MIL-STD-1553 LabVIEW Instrument Driver VI's for LabVIEW 2011
Virtual Instruments (LabVIEW 2012)	MIL-STD-1553 LabVIEW Instrument Driver VI's for LabVIEW 2012
Virtual Instruments (LabVIEW 2013)	MIL-STD-1553 LabVIEW Instrument Driver VI's for LabVIEW 2013
Mass Compiler for the LabVIEW VIs	Compile the LabVIEW VIs for each specific LabVIEW Version
Real-Time Driver	LabVIEW RT Max Deployment Utility
Instrument Documentation	User's manuals for the MIL-STD-1553 LabVIEW Instrument driver
Utilities	MIL-STD-1553 Instrument Driver Supporting software utilities
Flight Simulyzer	<p>GUI application providing support for the creation and editing of MIL-STD-1553 device configurations (e.g. configurations used by the LabVIEW VI's of the MIL-STD-1553 Instrument Driver).</p> <p>This application also provides full MIL-STD-1553 Simulation and Analyzer features and functions with additional licensing. Contact AIT (sales@avitech.com) for details.</p>
Soft Front Panel	GUI application providing a simple user interface to the basic features and functions of the MIL-STD-1553 hardware modules.
Configuration Converter	Command line application supporting the conversion of MIL-STD-1553 device configurations into the binary format required for efficient operations on LabVIEW Real-Time target systems.
AIT 1553 C Hardware API (C-API)	High level MIL-STD-1553 ANSI C API. Includes all needed header files, libraries, and documentation required to build applications software.
AIT 1553 C++ Hardware API (Owl1553)	High level MIL-STD-1553 object oriented C++ API. Includes all needed header files, libraries, and documentation required to build applications software.
Device Drivers and Firmware	MIL-STD-1553 Hardware module device drivers and on-board firmware. This component is needed on systems where the MIL-STD-1553 hardware modules will be installed.
Visual C++ 2008 SP1 Runtime	The Microsoft Visual C++ 2008 Service Pack1 runtime. This component may be required on systems that do not have the latest Visual Studio runtime installed.
Visual C++ 2010 SP1 Runtime	The Microsoft Visual C++ 2010 Service Pack1 runtime. This component may be required on systems that do not have the latest Visual Studio runtime installed.

MIL-STD-1553 LabVIEW Plug & Play Instrument Driver Components

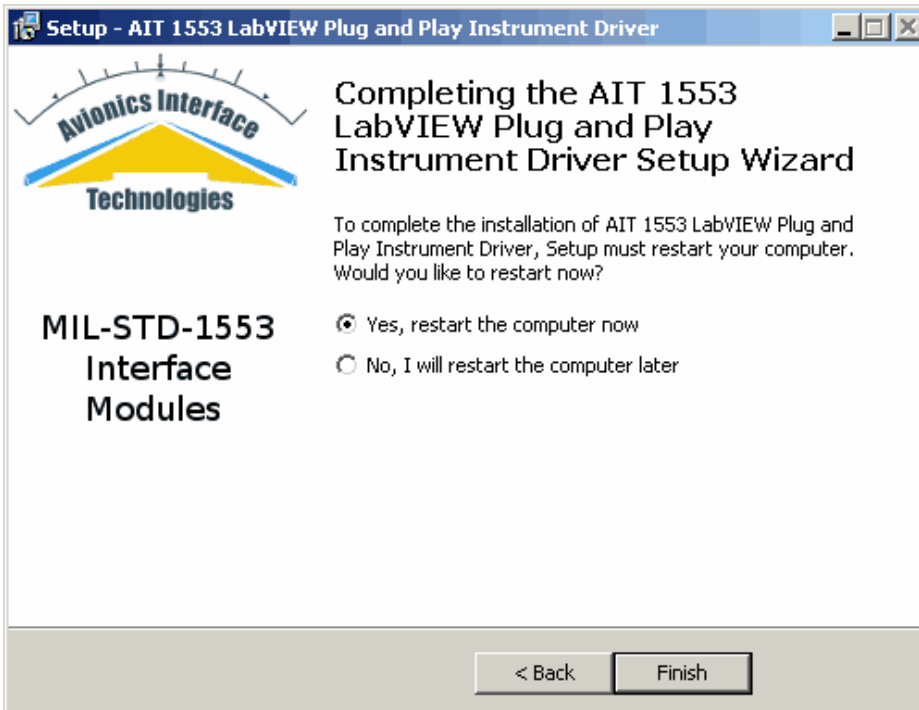
5. Select Mass Compile The LabVIEW VIs to compile the LabVIEW VI's for each specific version of LabVIEW



6. Review the installation tasks and, when ready, press Install to begin copying files to disk.



6. When prompted, choose whether or not the computer should be restarted after the installer exits. If you have installed the VISA drivers and firmware then you must restart the computer in order for the MIL-STD-1553 hardware modules to be restarted with the new drivers. (See the next section for Hardware installation instructions.)

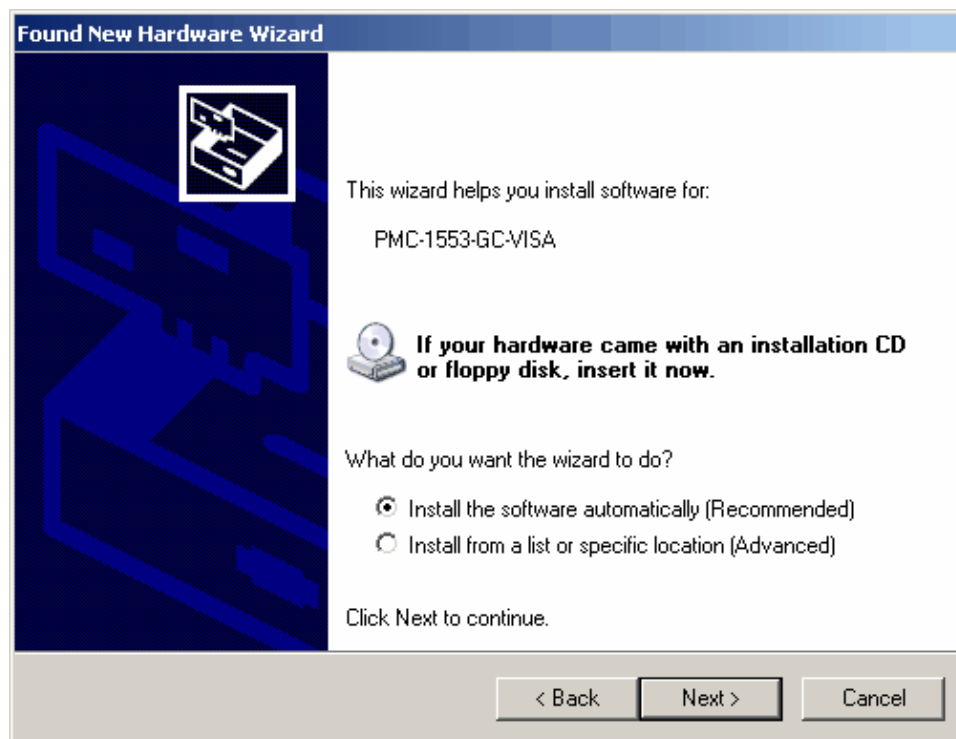


Installing the MIL-STD-1553 Hardware (Windows Desktop System)

1. Shutdown the computer, disconnect the power cable, and install the hardware. When the computer starts up, the “Found New Hardware Wizard” will start. Follow the wizard, choosing the illustrated options.



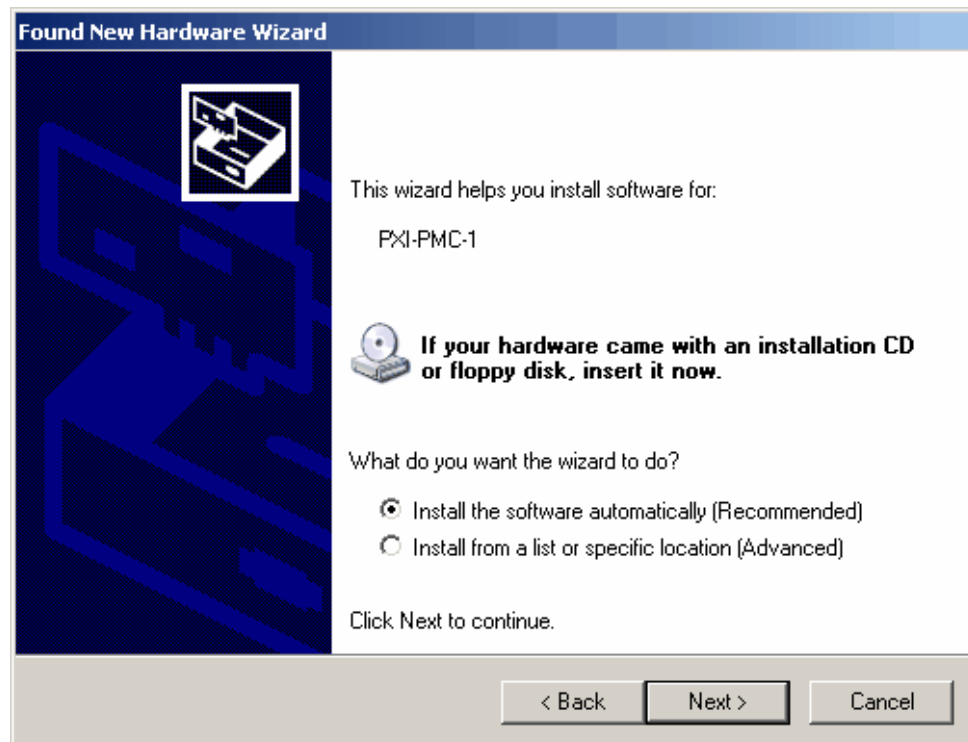
2. Install the the software automatically



3. The wizard will find the appropriate driver files. Press Finish to complete the installation.

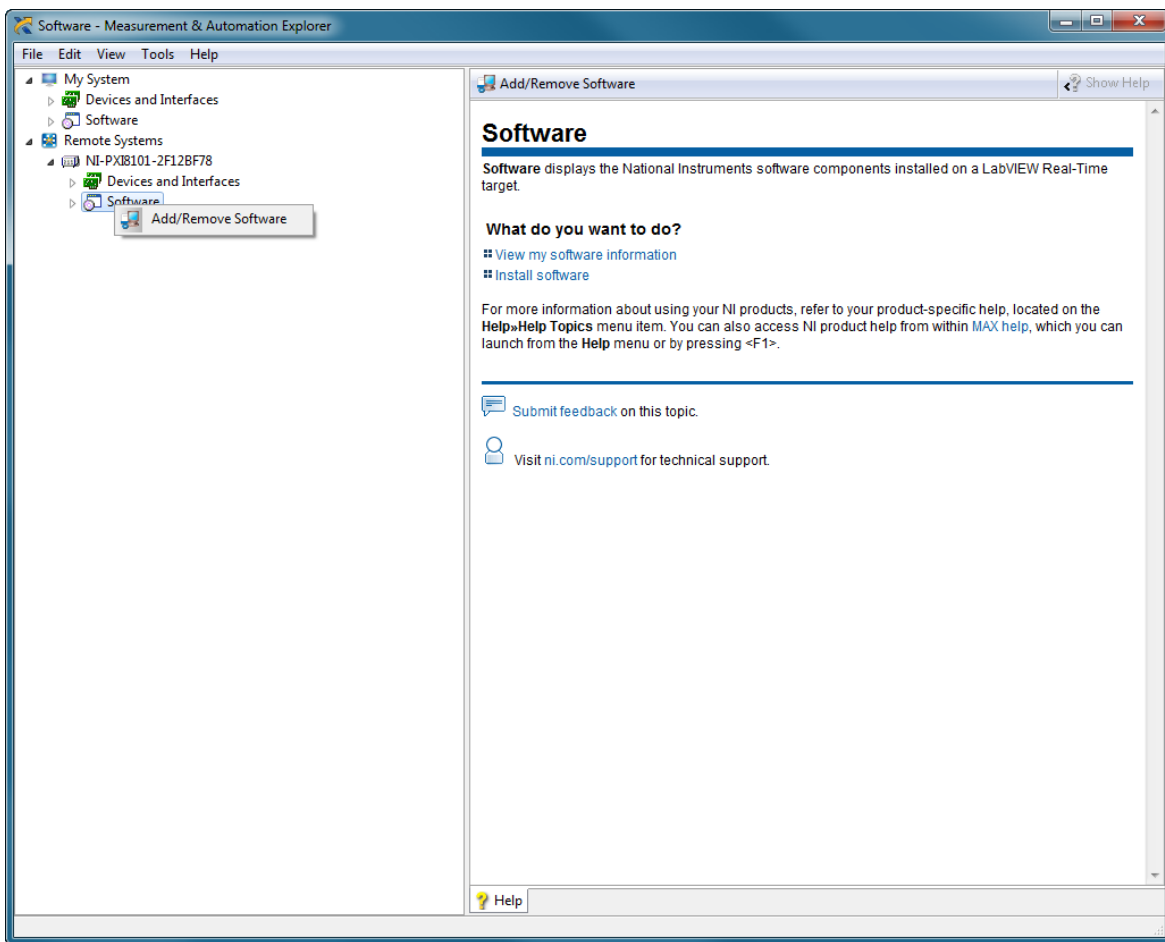


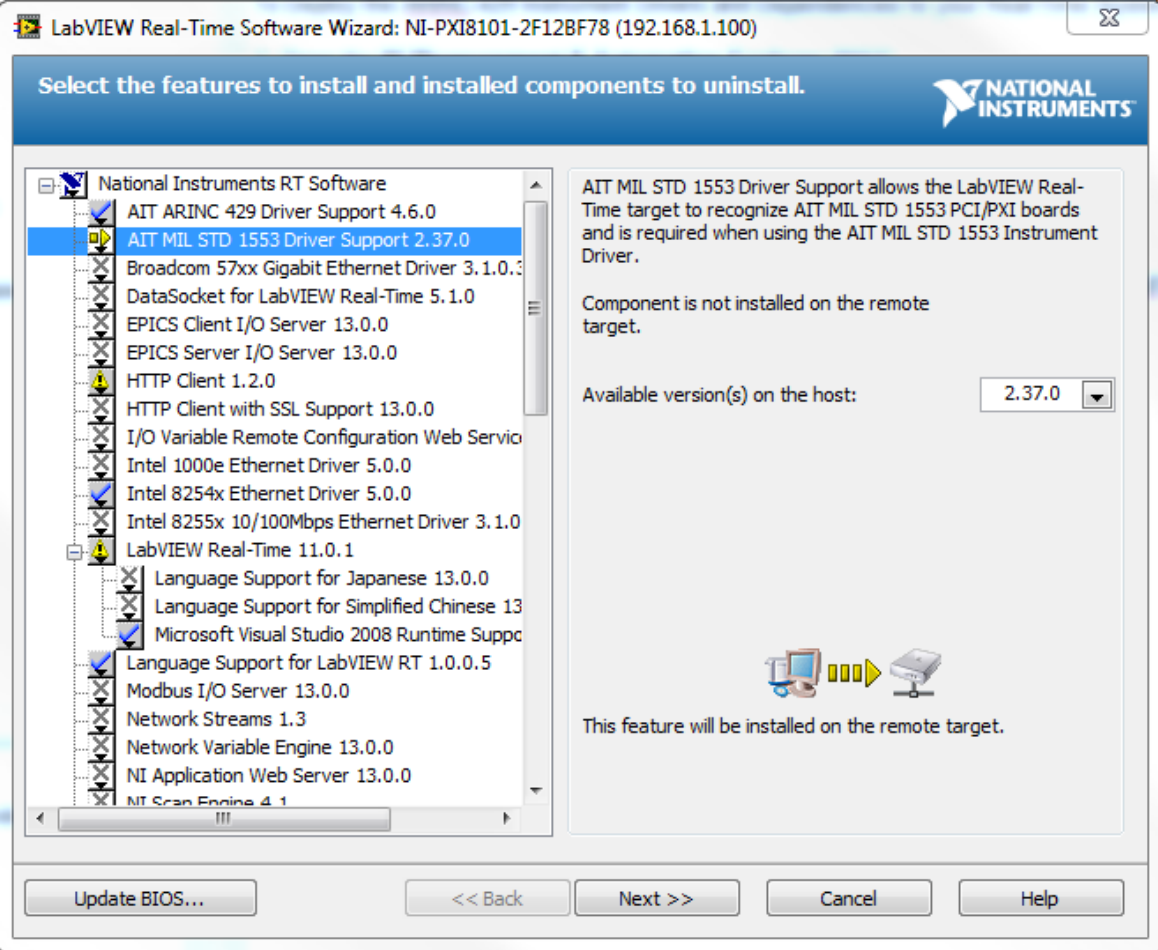
4. If your MIL-STD-1553 hardware is a PXI-C1553, PCI-C1553, or PCIe-C1553 module, a carrier module will also be detected by the Found New Hardware Wizard. Proceed through the wizard selecting the same options as described in the previous steps.



Installing the MIL-STD-1553 Hardware (LabVIEW Real-Time)

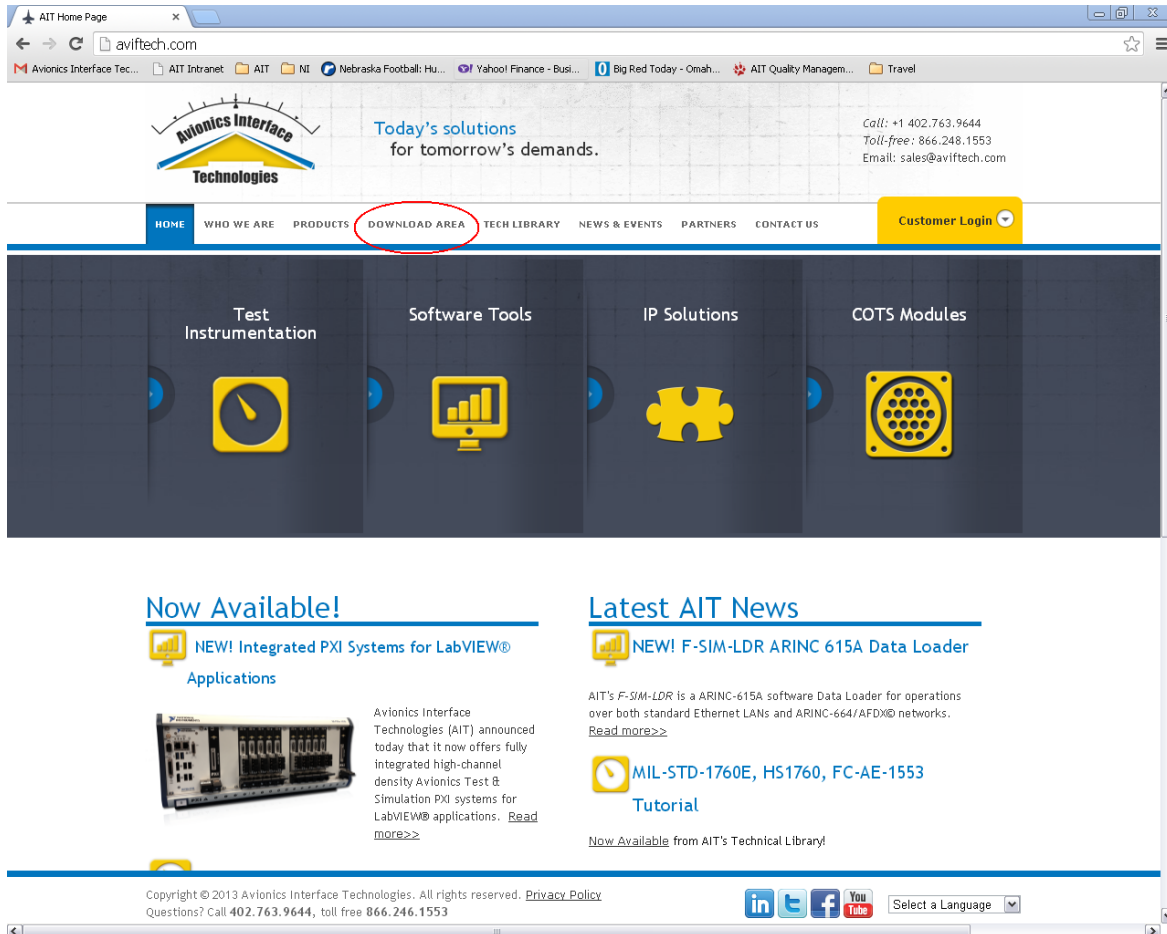
1. For LabVIEW Real-Time Systems, a deployment utility is provided to distribute all required driver files for the MIL-STD-1553 modules to the LabVIEW Real-Time target. This utility is accessible from the NI Max Utility.



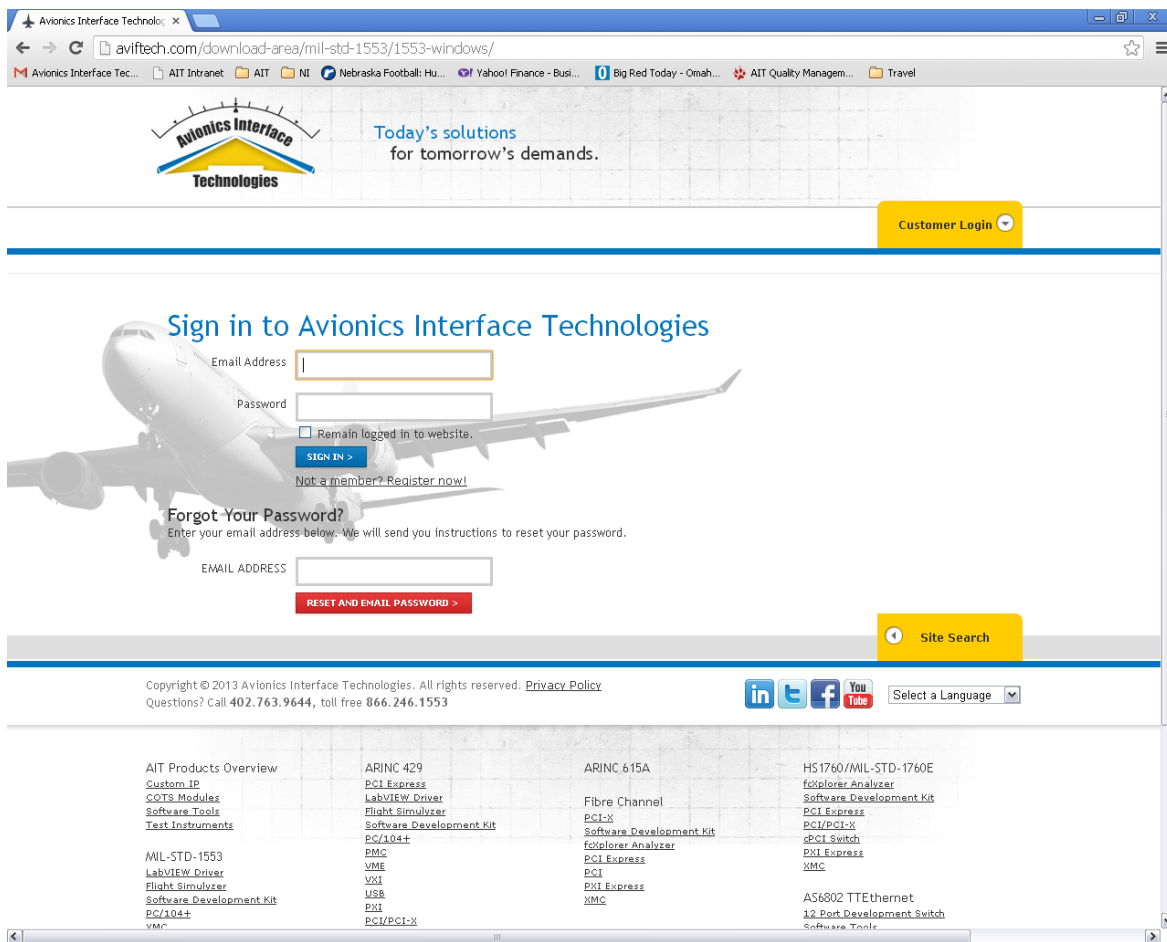


Downloading AIT Software

1. The MIL-STD-1553 LabVIEW Plug & Play Instrument Driver can be downloaded directly from the Download Area of the AIT Website. The Download Area is accessible via the Download Area link located at the top of the AIT Home page - www.aviftech.com.



2. Once in the Download Area, login using your Customer (User) ID and Password. If you do not already have a user account for Aviftech.com, you can register to create one.



- The MIL-STD-1553 LabVIEW Plug & Play Instrument Driver software is accessible from within the 1553 | 1553 LabVIEW software product page as shown below.

Avionics Interface Technologies

Today's solutions
for tomorrow's demands.

Call: +1 402.763.9644
Toll-free: 866.248.1553
Email: sales@aviftech.com

HOMEWHO WE AREPRODUCTSDOWNLOAD AREATECH LIBRARYNEWS & EVENTSPARTNERSCONTACT US

Customer Login

HOME / DOWNLOAD AREA / MIL-STD-1553 / 1553 LabVIEW

MIL-STD-1553

- 1553 Windows
- 1553 Linux
- 1553 VxWorks
- 1553 LabVIEW
- 1553 QNX
- 1553 Hardware Manuals

ARINC 429

ARINC 664

ARINC 615A

Fibre Channel

Product Guides & Datasheets

MIL-STD-1553 LabVIEW Instrument Driver (32-bit) v2.29.1 (exe) - 119508KB

MIL-STD-1553 LabVIEW Instrument Driver (64-bit) v2.29.1 (exe) - 121804KB

MIL-STD-1553 LabVIEW Instrument Driver Installation Instructions (pdf) - 2824KB

Can't find what you're looking for? Make sure to [Login](#), or if you don't have a user account, please register [Here](#).

Site Search

Copyright © 2013 Avionics Interface Technologies. All rights reserved. [Privacy Policy](#)
Questions? Call 402.763.9644, toll free 866.246.1553

in t f You Tube

Select a Language

AIT Products Overview
Custom IP
COTS Modules
Software Tools
Test Instruments

MIL-STD-1553
LabVIEW Driver
Flight Simulator
Software Development Kit
PCI104+
XMC

ARINC 429
PCI Express
LabVIEW Driver
Flight Simulator
Software Development Kit
PCI104+
BMC
VME
VXI
USB
PXI
PCI/PCI-X

ARINC 615A
Fibre Channel
PCI-X
Software Development Kit
fcExplorer Analyzer
PCI Express
PCI
PXI Express
XMC

HS1760/MIL-STD-1760E
fcExplorer Analyzer
Software Development Kit
PCI Express
PCI/PCI-X
dPCI Switch
PXI Express
XMC

AS6802 TTEthernet
12 Port Development Switch
Software Tools