LAN Socket Sample Programs Download

These are program examples for customers who need to communicate over the LAN but who do not have VISA hardware drivers installed on their computer.

This page only applies to power supplies with LAN version 1.4.1.1 or 2.0.1.4 or later, or to power supplies with the following graphic on the web "Home" page:

With ports for
VISA and Socket clients

If your power supply has an earlier version of LAN, please contact your local TDK-Lambda office.

Sockets with Visual Studio, C++

- These C++ programs are written in Visual Studio 6 with Winsock drivers, or in Visual Studio 2005 with .NET drivers. You can also just run the executable ('SocketClient.exe') program that is found in the '…\Release\…" folder.
- The program will open a window. Type in the LAN address and SCPI command fields and click the RUN button. The program will create a socket, connect, send, read, close the socket and then wait for next RUN button click
  - GEN LAN TCP Socket Cpp VS6.0 v03.zip
  - GEN LAN TCP Socket Cpp VS2005 v03.zip
  - GEN LAN UDP Socket Cpp VS6.0 v02.zip
  - GEN LAN UDP Socket Cpp VS2005 v02.zip

Sockets with Linux 'C'

- These programs are written in Linux ANSI C. They may be ported to a PLC and other non-Windows operating systems.
- These are Terminal command line programs. At the prompt, type the LAN address and then the SCPI command. The program will create a socket, connect, send, read, close the socket and then prompt for the next SCPI command.
  - GEN LAN TCP Socket LinuxC v02.tar.gz
  - GEN LAN UDP Socket LinuxC v02.tar.gz

Sockets with Visual Studio C#

- This is a C# program written in Visual Studio 2005 with .NET drivers. It is a console application that uses command line prompts to enter the LAN address and enter SCPI commands. The program will create a socket, connect, send, read, and then prompt for the next SCPI command. When "X" is entered, it will close the socket and exit.
- The Visual Studio 2005 C# solution (source code) is given.
  - GEN TCP Socket C# Terminal v04.zip
- The console application (above) only runs as fast as you can type. It does not behave the same as a fast process controller does; it does not show how the TCP/IP packets are concatenated or fragmented. Below is a C# program which declares an array of strings (SCPI commands) and sends them as fast as possible in a repeating loop. If the command ends with "?", the response is read back and displayed.
- The Visual Studio 2005 C# solution (source code) is given.
  - GEN TCP Socket C# CmdArray v03.zip

VXI-11 Discovery Utility

- This is a simple utility program that will send a broadcast packet onto the LAN network and check any responses from VXI-11 compliant instruments. The utility will display a list of detected instruments along with the IP and manufacturer identity information. The Visual Studio 2005 C# solution (source code and executable) is given.
  - VXI-11 Discovery Tool v02.zip