

Sample Application for Ethernet module Sockets Feature

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Access Level: TechConnect

How can I set up an open socket connection on my 1756-EWEB, 1768-EWEB or 5370 1769-LyyER processors?

Solution

This attached sample application will create 3 different types of sockets with 1756-EWEB firmware revision 3.5 or higher or CompactLogix 1769-LxxER 5370 plcs and 1768-EWEB modules.

Please note this will not work with any earlier firmware releases of the 1756-EWEB module or with 5332 and 5335 CompactLogix plcs as they do not support open sockets.

This example was tested with the 1756-EWEB module in the local rack and with a 1769-L36ERM. Replace the path for Message instructions with an actual path in the tag `_EWEB_PATH` found in Controller Tags of the example programs for use with 1756, or 1768 modules.

Default path value was set to '\$01\$03' for local slot #3 for the 1756-EWEB.

For Compact, use the attached Client/Server logic.

Message path for 5370 1769-LyyER controllers will always be '\$01\$00'

Note: Starting with firmware revision 5.x, 1756-EN2T, EN2TR, EN3TR, EN2F and newer V20 (or higher), CompactLogix controllers support this functionality. See Ethernet Design Considerations Reference Manual Publication ENET-AT002 for details.

In addition we included a simple Windows Test Application.

Note: Test Application works only in Windows 2000, XP Pro and Windows 7. This Test Application program is not a product of Rockwell Automation and is provided with no support or warranties. Be sure to change the tag in Controller Tags `Sock_Open_Par.DestAddr` to the IP address of your test computer running the test application. It is very important to follow the instructions exactly in the PDF document to use the test application. Please read the 1756-EWEB user manual EtherNet/IP WebServer Module 1756-EWEB, 1768-EWEB User Manual, publication ENET-UM527 Appendix B before using this program.

This sample application creates the following socket types:

- TCP Client
- TCP Listen/Server
- Unconnected UDP

All version 2 programs are written in RSLogix 5000 version 15 which has predefined MSG types for better understanding.

The CompactLogix Server/Client examples are written in version 24 of Studio 5000.

We recommend using this provided EWEB Test Application as a test before implementing your actual 3rd party device application. Also, see 48879 -Summary of EWEB sockets information for more details.

Attachments:

[TN_32962.RAR](#)

[COMPACT SOCK TCP SERV VER2 1.RAR](#)

[COMPACTL OPEN SOCK TCP CLIENT VER2 1.RAR](#)

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