

TAMS L488 Quick Start for Microsoft Windows

1. Agilent IO libraries must already be installed on the PC. To install the TAMS L488 software, insert the CD into your PC and run D:\windows\setup.exe.
2. Connect the L488 to your Power over Ethernet Switch or Power Injector and verify that the Power LED glows green. For a Power Injector, the "LAN in" connects to your Ethernet Switch, and the "Power LAN out" connects to the L488.
3. Obtain a new fixed IP address for the L488 from your Network Administrator. This address is referred to as nnn.nnn.nnn.nnn in these instructions.
4. Run the TAMS Adapter Finder from the desktop and note the IP address of your L488. (You may have to disable a firewall.) If the IP address is on your local subnet (i.e., starts with the same numbers as the IP address of your PC) and is not 192.168.0.1, then your DHCP server has assigned an IP address. In this case, open a web browser, type in the IP address from the Adapter Finder, and skip to step 6.
5. If the IP address from the Adapter Finder is 192.168.0.1, then no DHCP address was assigned, and you need to add a route to address the L488. Type this command from a DOS prompt:

```
route add 192.168.0.1 ppp.ppp.ppp.ppp
```

where ppp.ppp.ppp.ppp is the IP address of your PC. (To see the IP address of your PC, open a DOS command box, type "ipconfig", and look for "IP Address" or "IPv4 Address"). Open an internet browser and type in the IP address 192.168.0.1.

6. The TAMS L488 web page will be displayed. Uncheck the box "DHCP Enabled", type nnn.nnn.nnn.nnn into IP Address field, verify the Subnet Mask and Gateway with your Network Administrator, and click "Submit Changes (Adapter will reboot)". After a few seconds for reboot, click on the new address link in the web browser. The L488 webpage is displayed.
7. Adjust the LAN interface settings via iocfg.exe (select lan, click Edit, select VXI-11 protocol, turn off TCP for Portmap, click OK) or Agilent Connection Expert, ACE: (select LAN, click Change Properties, select VXI-11 protocol, click OK).

Example address strings for a device at GPIB address 7:

Agilent SICL Library: lan[nnn.nnn.nnn.nnn]:gpib0,7

VISA library: TCP/IP0::nnn.nnn.nnn.nnn::gpib0,7

Adding the L488 interface to Agilent Connection Expert (ACE):

1. In ACE, click "Add Interface" on the toolbar below the menu.
2. Select "Remote GPIB (via E5810 or Remote IO Server)" and click "Add"
3. Click "IP address" and type in the IP address nnn.nnn.nnn.nnn from above. The "Interface name on remote host" must be "gpib0". Click "Test Connection" and note the big green checkbox. Before you click OK, note the "VISA interface ID" and the "SICL interface ID". You may find it convenient to make them similar (e.g. GPIB1, gpib1).

Now that you have configured the L488 as gpib1/GPIB1 in ACE, these are example address strings for a device at GPIB address 7:

Agilent SICL Library: gpib1,7

VISA Library: GPIB1::22

TAMS L488 Quick Start for Linux

1. Login as “root”, insert the CD into your PC and enter these commands at a terminal window:

```
mkdir /mnt/cdrom
mount /dev/cdrom /mnt/cdrom # assumes your cdrom is at /dev/cdrom
/mnt/cdrom/linux/INSTALL
```

2. Connect the L488 to your Power over Ethernet Switch or Power Injector and verify that the Power LED glows green. For a Power Injector, the “LAN in” connects to your Ethernet Switch, and the “Power LAN out” connects to the L488.

3. Obtain a new fixed IP address for the L488 from your Network Administrator. This address is referred to as nnn.nnn.nnn.nnn in these instructions.

4. Run the TAMS Adapter Finder via the command “/opt/sicl/bin/lanfind” and note the IP address of your L488. (You may have to disable the firewall via System / Administration / Firewall and SELinux) If the IP address is on your local subnet (i.e., starts with the same numbers as the IP address of your PC) and is not 192.168.0.1, then your DHCP server has assigned an IP address. In this case, open a web browser, type in the IP address from the Adapter Finder, and skip to step 6.

5. If the IP address from the Adapter Finder is 192.168.0.1, then no DHCP address was assigned, and you need to add a route to address the L488. Enter this command at a terminal window:

```
route add -host 192.168.0.1 dev eth0
```

where “eth0” is the physical interface to the LAN. Open an internet browser and type in the IP address 192.168.0.1.

6. The TAMS L488 web page will be displayed. Uncheck the box “DHCP Enabled”, type nnn.nnn.nnn.nnn into IP Address field, verify the Subnet Mask and Gateway with your Network Administrator, and click “Submit Changes (Adapter will reboot)”. After a few seconds for reboot, click on the new address link in the web browser. The L488 webpage is displayed.

7. Verify that the LAN interface is setup properly by running /opt/sicl/bin/iosetup as root. If “lan” is not listed in “Configured Interfaces”, then

```
In the “Available interfaces” list box select “LAN Client”
Click “Configure”
Enter the symbolic name “lan”
Set protocol to “VXI-11”
Click “OK”
```

If “lan” is already a configured interface, select “lan”, click “Edit”, set protocol to “VXI-11”, and click OK. To setup the LAN interface for VISA,

```
Click “Configure VISA”
In the “Unconfigured interfaces” list box select “lan” or “LAN Client”
Click “Configure”
For the interface name use, for example, GPIB1
For Remote Hostname enter the TAMS L488 Adapter IP address, nnn.nnn.nnn.nnn
Set Remote SICL interface name to gpib0
Click “Automatically identify all devices at runtime”, then click “OK”
```

Example address strings for a device at GPIB address 7:
SICL Library: lan[nnn.nnn.nnn.nnn]:gpib0,7

VISA library: GPIB1 : : 7