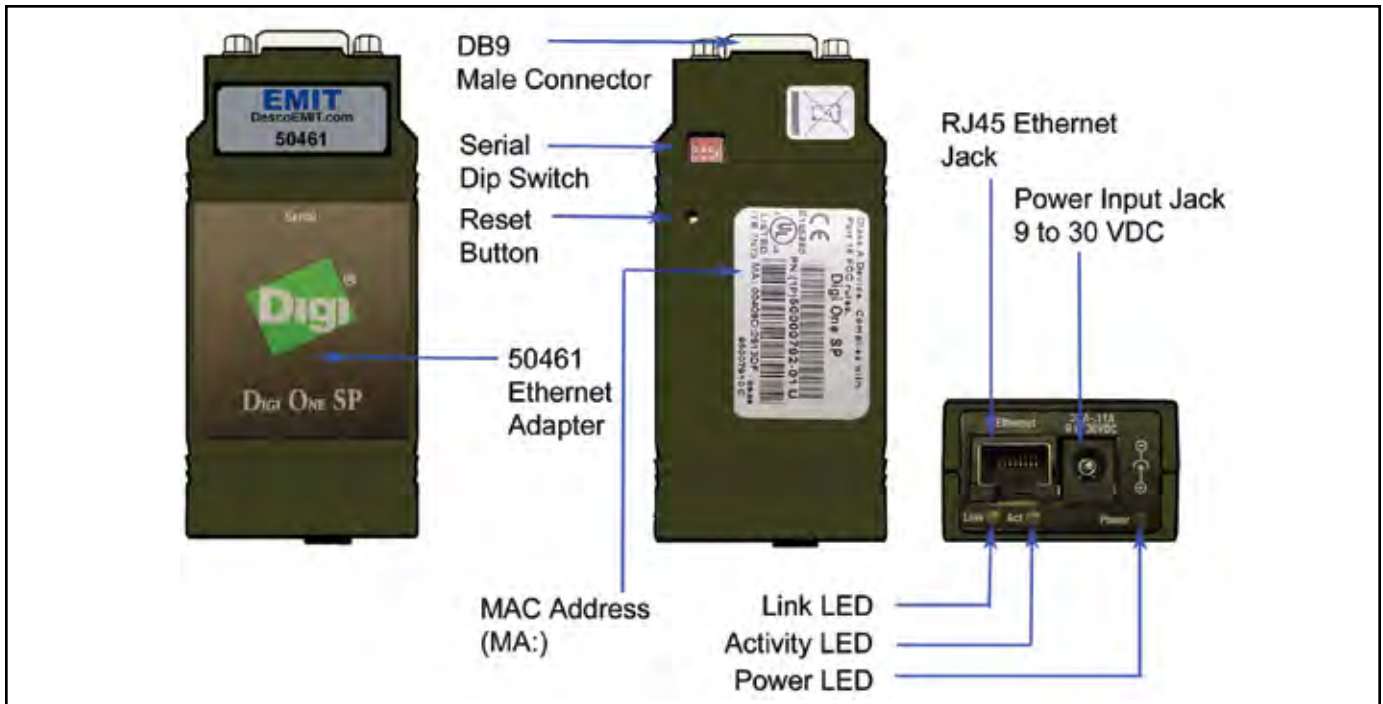


Ethernet Adapter, 10/100 Installation, Operation and Maintenance



Item [50461](#) Ethernet Adapter

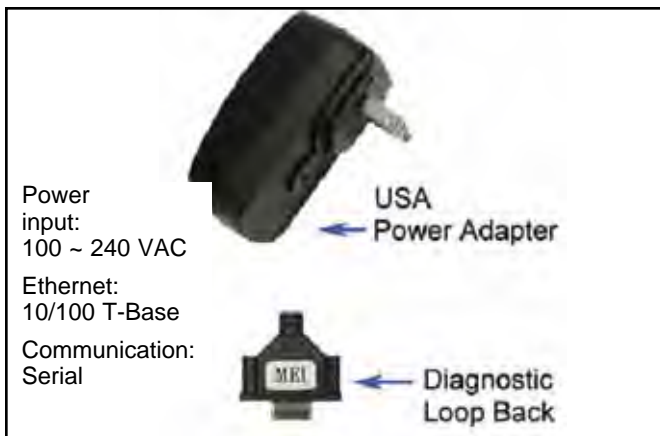


Figure 1.

Packaging:

- 1 - Digi SP One Ethernet Adapter
- 1 - Diagnostic Loop Back Key
- 1 - Quick Start Guide
- 1 - Release Note
- 1 - Installation and Drivers CD-ROM
- 1 - 100 ~ 240 V to 12VDC Power Adapter
- 1 - 24" Inverted Communication Cable
- 1 - North American Plug

Note: Ethernet cable is not supplied with unit. End user must supply his or her own Ethernet cable.

System and Hardware Requirements:

The [50461](#) is designed to be used with EMIT's SmartLog X3 systems. You must have the SmartLog software, TEAM Enterprise Software or TEAM Basic Software.

Mounting and Installation:

NOTE: If an existing model 50460 Ethernet adapter is being used the model [50461](#) cannot be used on the same LAN due to driver conflicts. We highly recommend switching over to model [50461](#) Ethernet adapter.

This technical bulletin is intended for personnel familiar with networking concepts and the SmartLog X3 system. Before mounting the Ethernet adapter to a wall, or back-plate of SmartLog X3, the Ethernet adapter must be configured with the correct communication parameters and must be assigned an IP address.

1. Powering unit and Locating unit on the LAN

Make sure there is an Ethernet cable, LAN jack, and power outlet for the Ethernet card to connect to.

Before powering or connecting an Ethernet cable the dip switches must be set with dip 1 to the on position (up) and the rest to the off position (switch 2 to 4 down). The diagnostic loop back key must be securely connected to the DB9 make serial port. (Refer to Figure 2)

Make sure the AC power adapter supplied with model 50461 is used. The AC power adapter is a 100 ~ 240VAC auto switching power adapter and can be plugged into any power outlet known. Item 50461 includes a Universal Adapter with a 120V plug. EMIT has optional replacement blades available separately for both UK / Asia (Item 50586) and Euro (Item 50587) style plugs.



Figure 2.

Once the unit is powered up the Link and Act LED will come on for approximately 2 seconds. Plug the Ethernet and/or network cable into the jack labeled "Ethernet." The Link LED should turn on and the Act LED should blink repeatedly. If the Link LED or Act LED does not come on you will need to reset the Ethernet adapter. First you need to power down and re-power up the unit. Then use a small screw driver, or small probe; push and hold the reset button for approximately 10-12 seconds. The Power LED will blink 4 times and then reset itself.

To install the software use the CD-ROM included with the unit. Make sure you are inserting the CD-ROM into the computer that is running the SmartLog X3 software. This includes SmartLog 6.03, TEAM Enterprise, and TEAM Basic. The installation software should run automatically, but if the software does not, go to "My Computer" and open the CD-ROM drive labeled "Digi".

Once the set-up program opens follow the directions on the screen. The program should automatically find the unit on the LAN. If the unit cannot be located check to ensure the diagnostic loop back is securely connected to DB9 connector. Also, check to make sure the unit is powered on, and the Link and Act LED's are blinking periodically.

2. Assigning IP Address via Installation CD

Click next after each bullet.

- Obtain IP setting automatically using DHCP.
- Select the scenario list to "REALPORT (Com Port Redirection)".
- Check, check box "Install Digi RealPort on this computer".
- Click next to configure and save setting. This will take a few minutes while the software communicates with the Ethernet adapter.

3. Adding Hardware (Multi-port Serial Adapter) in Windows

Go to START menu (bottom left of Windows). Once the Start Menu pops up go to the Control Panel. Find and open the Add Hardware icon. If the Add Hardware icon does not appear on the left of the Control Panel select the option "Switch to Classic View". Once the menu is changed to "Classic View" locate and open the Add Hardware icon. "Welcome to Add Hardware Wizard" should appear. Click on next and follow the following steps for each menu as they appear.

- **Is the Hardware Connected?** - Click on "Yes, I have already Connected the hardware," and next.
- **The following hardware is already installed on your computer** - Scroll down and select "Add a new hardware device," and next.
- **The wizard can help you install other hardware device** - Check "Install hardware that I manually select for a list (Advance)," and next.
- **From the list below, select the hardware you will be installing** - Scroll down to "Multi-port serial adapters,"  Multi-port serial adapters and next.
- **Select the device driver you want to install for this hardware** - Select "Standard RealPort Device," and next. If it doesn't give you an option to select "Standard RealPort Device," click on "Have Disk..." The path of the driver is your CD-ROM Drive "\drivers\windows\win2k\realport\digirp.inf".
- **The wizard is ready to install your hardware** - It should show, "Standard RealPort Device," click next.
- **Discover Device** - The unit should be located in the menu under model Digi One SP with an IP Address already assigned to the unit. Depending on how your network is setup you might need to manually enter an IP Address. If you are entering the IP Address manually the port number is 771.

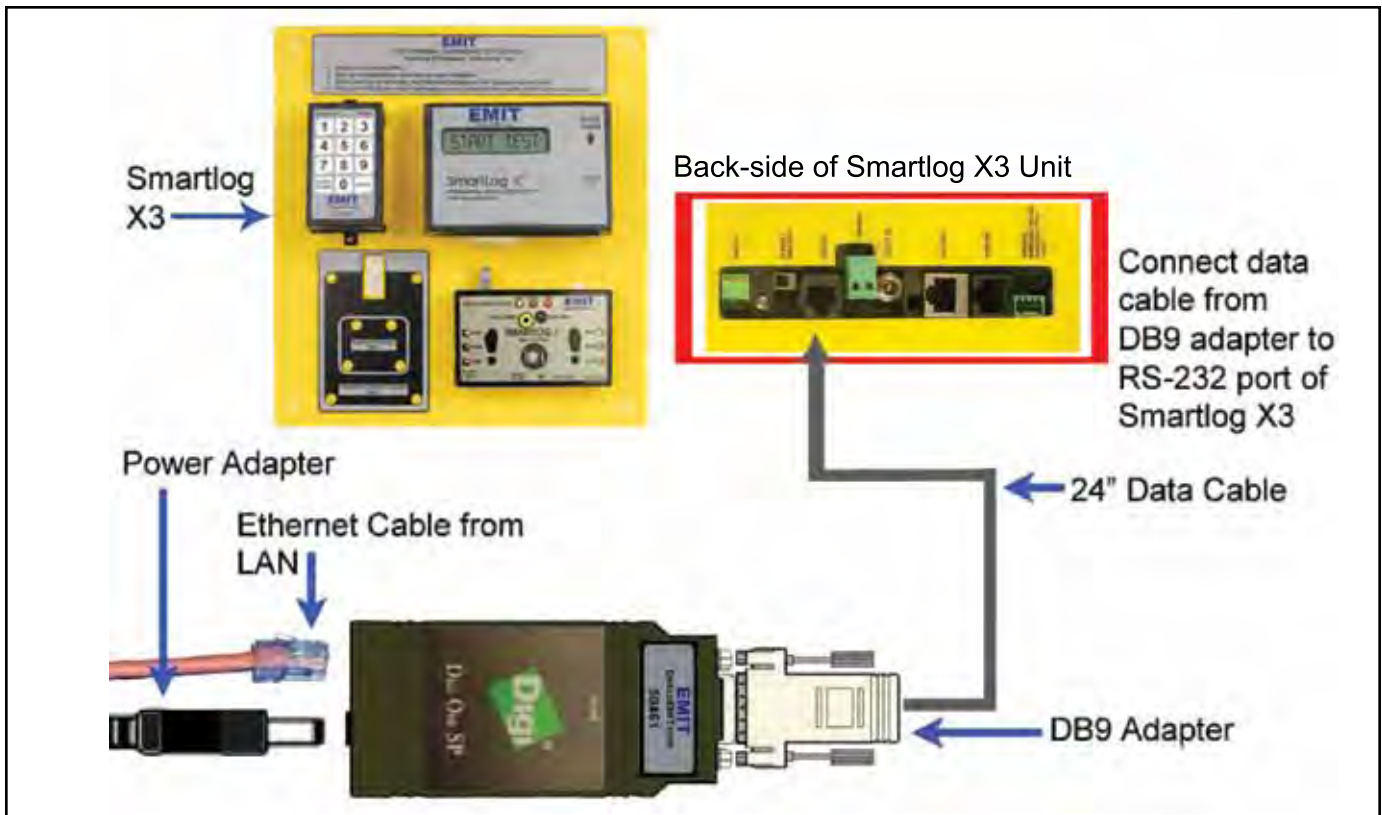


Figure 3.

- **Select Com Names** - Windows should automatically give you a free comport. You can select from the list or select the default one highlighted by Windows. Make sure you note this comport down, you will need this information for the SmartLog X3 software. There is a section in the SmartLog software where you can note down the comport number and IP Address for each unit.
- **Completing the Add Hardware Wizard** - It should show, "Standard RealPort Device," click Finish.

4. Connecting Digi One Sp Hardware to SmartLog X3

Refer to Figure 3. Disconnect and remove the Diagnostic Look Back from the model [50461](#). Connect the DB9 Adapter supplied with the SmartLog X3 to the serial port of the model [50461](#). Connect the 24" data cable from the DB9 to the RS-232 port on the back-side of the Smartlog X3 (Refer to Figure 3). Make sure that the LED lights underneath the barcode reader of the Smartlog X3 do not come on. If they do this means you have an incorrect data cable connected to the RS-232 port, or the RS-232 port is damaged.

Operation:

Refer to the instruction manual or technical bulletin for the software you are using to program and poll the SmartLog X3. Treat the unit as if it is connected directly to the comport. Perform a search or on the TEAM software. Make sure to adjust the "min" and "max" comport range so that the comport for the model [50461](#) falls within the range.

Specifications and Dimensions:



Figure 4.

Dimensions:

Length: 3.882" in / 9.860cm

Width: 1.679" in / 4.264cm

Depth: 0.983" in / 2.496cm

Weight: 2.29 oz / 65 g

Operating Temperature:

Ambient temperature: 10°C to 45°C (50°F to 131°F)

Relative humidity: 5% to 90% (non-condensing)

Power Requirement:

9-30Vdc @ 0.5A max

Troubleshooting:

- **Link LED or ACT not turning on when the Ethernet is powered**
 - Power down unit, re-power unit, and push and hold the reset button for 10-12 seconds
- **Software cannot find or conflicts within comports**
 - Make sure you have the Diagnostic Loop Back securely connected to the serial port of the model 50461.
 - Make sure Ethernet cable is not defective or incorrectly wired.
 - If you have a Lantronix com port, you will need to un-install the software.
- **The Ethernet is not communicating with the TEAM software**
 - Make sure the dip switches are factory default (Refer to page 2)
 - Verify the communication settings of the Ethernet are the following:
 - Baud Rate: 9600
 - Data Bits: 7
 - Parity: Odd
 - Stop Bits: 1

- Verify the Baud Rate of the SmartLog X3 is set to 9600 (Refer to page 3 of [TB-6561](#))
- Make sure the DB9 Adapter is securely connected to the serial port of the model [50461](#)
- Verify the 24" data cable from the Ethernet is connected to the RS-232 port of the SmartLog X3
- Verify the LED's on the underneath the SmartLog X3 BC Reader do not come on. If they do, this means an incorrect or defective data cable is connected.
- **Why does the SmartLog X3 lose signal with the TEAM Software?**
 - Verify no heavy duty electrical equipment is running near by
 - Verify the network IP address used to communicate with the SmartLog X3 is valid. IP addresses are occasionally refreshed by the IT department in order to avoid unauthorized personnel from accessing the network.

Limited Warranty

EMIT expressly warrants that for a period of five (5) years from the date of purchase EMIT Ethernet Adapters will be free of defects in material (parts) and workmanship (labor). Within the warranty period, a credit for purchase of replacement EMIT Ethernet Adapters, or, at EMIT's option, the Ethernet Adapter will be repaired or replaced free of charge. If product credit is issued, the amount will be calculated by multiplying the unused portion of the expected five year life times the original unit purchase price. Call our Customer Service Department at 909-664-9980 (Chino, CA) for a Return Material Authorization (RMA) and proper shipping instructions and address. Please include a copy of your original packing slip, invoice, or other proof of date of purchase. Any unit under warranty should be shipped prepaid to the EMIT factory. Warranty replacements will take approximately two weeks.

If your unit is out of warranty, call our Customer Service Department at 909-664-9980 (Chino, CA) for a Return Material Authorization (RMA) and proper shipping instructions and address. EMIT will quote repair charges necessary to bring your unit up to factory standards.

Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

Limit of Liability

In no event will EMIT or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.