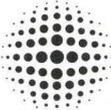


Small and
Lightweight,
the Ideal
Ethernet
Connector for
the PowerBook

DaynaPORT
Pocket SCSI/Link

Portable Macintosh Ethernet Adapter

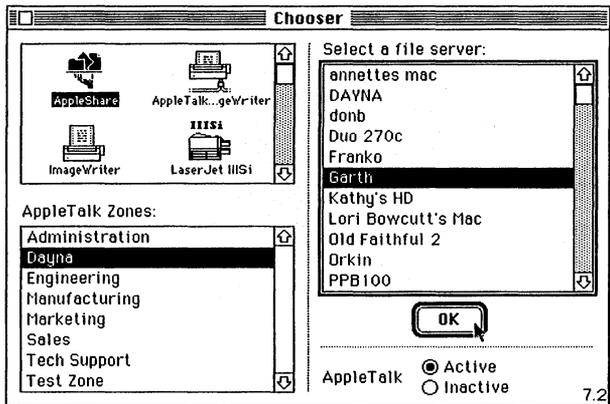
User's Guide

 **Dayna**[®]
Communications

Pocket SCSI/Link Quick Start

This card outlines the basic installation steps for DaynaPORT Pocket SCSI/Link external adapters. Installation typically should take less than five minutes.

1. Make sure the Macintosh is turned off. Set the SCSI/ID switch on the Pocket SCSI/Link. Connect Pocket SCSI/Link to your Macintosh SCSI bus and your network cable system. Connect the ADB power cord or AC adapter and plug it in to turn on Pocket SCSI/Link. Turn on the Macintosh.
2. Insert the *DaynaPORT Installer* disk in your Macintosh floppy disk drive. Double-click the Installer icon and click the INSTALL button. The Installer will copy the DaynaPORT driver and AppleTalk into your System. When it's done, restart your Macintosh.
3. Open the Network control panel and select the EtherTalk Alternative icon and a default zone. (Refer to the section **Choosing the Software Connection** in Chapter 2 for instructions.)
4. To verify that the Pocket SCSI/Link has a working network connection, open the Chooser. Select a zone, click the AppleShare icon, and choose a server to log in to.



You can also run the DaynaPORT diagnostics (see the Diagnostics Read Me file on the disk) to verify that your Pocket SCSI/Link and its software are installed correctly.

You're now ready to access the Ethernet network via Pocket SCSI/Link.

DaynaPORT Pocket SCSI/Link User's Guide

**External Ethernet Connector
for PowerBooks**

Network Interface Products for EtherTalk

First Edition
Second Revision
September 1995

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Dayna Communications, Inc.
Sorenson Research Park
849 West Levoy Drive
Salt Lake City, UT 84123

For Technical Service and Support, call (801) 269-7200

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If you discover a defect, Dayna will, at its option, repair, replace or refund the purchase price of the product at no charge to you, provided you return it during the warranty period, transportation charges prepaid, to the Authorized Dayna Dealer from whom you purchased it or to any other Dayna Dealer within the country of the original purchase. (You can obtain additional information directly from Dayna at the address printed on the back cover of this manual.) To each product returned for warranty service, please attach your name, address, telephone number, a description of the problem and a copy of the bill of sale bearing the appropriate serial numbers as proof of the date of the original retail purchase.

It may be necessary to return the unit directly to Dayna Communications for repairs. If so, please contact the Customer Service Department at Dayna to get a Return Merchandise Authorization Number (RMA#). You must write this number on the outside of the package where it can be easily seen. No unit will be accepted without an RMA#. For help, call (801) 531-0600.

This warranty applies only to hardware products and is not transferable. See separate warranty information on software media and manuals.

This warranty does not apply if: (1) the product has been damaged by accident, abuse, misuse or misapplication, or has not been operated in accordance with the procedures described in this and/or other accompanying manuals; (2) the product has been altered or repaired by other than an Authorized Dayna Dealer or Dayna Customer Service person nel; or (3), any serial number has been removed, defaced or in any way altered.

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Introduction

Welcome to the DaynaPORT family of Ethernet products for Macintosh computers. In addition to incorporating the latest innovations in high-speed Ethernet technology, DaynaPORT provides an Ethernet solution for the entire Macintosh family.

The DaynaPORT Pocket SCSI/Link-T and Pocket SCSI/Link-M external adapters are the newest members of the DaynaPORT family. Their revolutionary design makes them the lightest and most compact external network adapters available for Macintosh networking. Since the Pocket SCSI/Link uses your Macintosh's SCSI port to connect to an Ethernet network, it's the ideal network connection for compact systems, such as the Macintosh Plus, Classic, Classic II, and portable systems with no internal card slot, such as the Macintosh Portable, PowerBook, and PowerBook Duo.

Pocket SCSI/Link's DB-25 and HDI-30 SCSI ports support SCSI pass-through and let you easily integrate Pocket SCSI/Link into any SCSI chain. Pocket SCSI/Link comes with a single HDI-30 system cable that lets you connect to either the DB-25 SCSI port on desktop Macintosh computers, or to the HDI-30 SCSI port on PowerBook and Duo computers.

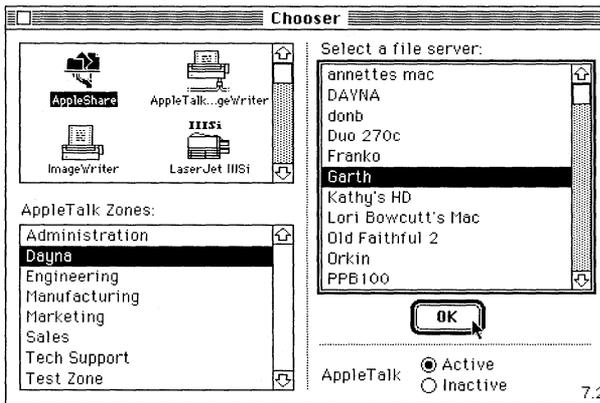
The DaynaPORT SCSI/Link driver works with all current Macintosh operating systems, from System 6.0.5 to the latest version of System 7. DaynaPORT supports both AppleTalk Phase 1 and Phase 2 networking protocols. Once you've installed the DaynaPORT software, your Macintosh will be able to communicate with servers, modems, printers, and other network devices on an Ethernet cable system.

DaynaPORT drivers support multiple networking protocols, including TCP/IP, DECnet, IPX, and NCP. All DaynaPORT products support AppleTalk Connection for Macintosh and TCP/IP Connection for Macintosh, Apple's new Simple Network Management Protocol (SNMP) agents for the Macintosh.

Pocket SCSI/Link Quick Start

This section outlines the basic installation steps for DaynaPORT Pocket SCSI/Link external adapters. Installation typically should take less than five minutes.

1. Make sure the Macintosh is turned off. Set the SCSI/ID switch on the Pocket SCSI/Link. Connect Pocket SCSI/Link to your Macintosh SCSI bus and your network cable system. Connect the ADB power cord or AC adapter and plug it in to turn on Pocket SCSI/Link. Turn on the Macintosh.
2. Insert the *DaynaPORT Installer* disk in your Macintosh floppy disk drive. Double-click the Installer icon and click the INSTALL button. The Installer will copy the DaynaPORT driver and AppleTalk into your System. When it's done, restart your Macintosh.
3. Open the Network control panel and select the EtherTalk Alternative icon and a default zone. (Refer to the section **Choosing the Software Connection** in Chapter 2 for instructions.)
4. To verify that the Pocket SCSI/Link has a working network connection, open the Chooser. Select a zone, click the AppleShare icon, and choose a server to log in to.



You can also run the DaynaPORT diagnostics (see the Diagnostics Read Me file on the disk) to verify that your Pocket SCSI/Link and its software are installed correctly.

You're now ready to access your Ethernet network via Pocket SCSI/Link.

What's New with Pocket SCSI/Link

DaynaPORT Pocket SCSI/Link adapters come with these new features:

- At 4 1/4 inches by 3 inches by 1 1/4 inches, Pocket SCSI/Link is the smallest external Ethernet adapter available for Macintosh computers
- Apple Desktop Bus (ADB) powered for Pocket SCSI/Link-T models, or light-weight (2.7 oz.) digital power supply for Pocket SCSI/Link-M models (USA models only)
- SCSI pass-through via HDI-30 and DB-25 SCSI ports
- Single HDI-30 system cable provides connections to either desktop or notebook Macintosh computers
- Single SCSI ID and termination switch

How to Use This Guide

This guide describes how to connect a Macintosh to a working Ethernet network, install and use the network software, and solve any problems that you may encounter using Pocket SCSI/Link.

Chapter 1, **Installing and Connecting Pocket SCSI/Link**, describes how to connect Pocket SCSI/Link external adapters to Macintosh and PowerBook computers with the power supply or ADB power cable and connection to your network cable system.

Chapter 2, **Installing the DaynaPORT Software**, describes how to install and remove the DaynaPORT software and select the EtherTalk Alternative driver for your workstation.

Chapter 3, **Solving Problems**, explains how to test for errors and isolate problems with DaynaPORT.

Appendix A, **Service, Support, Sales, and Specifications**, explains how to get technical support from Dayna Communications for your product.

This guide ends with a **Glossary** and **Index**.

Pocket SCSI/Link Models

Pocket SCSI/Link comes in two versions: Pocket SCSI/Link-T, which has a single RJ-45 connector for 10BASE-T networks, and Pocket SCSI/Link-M, which comes with a BNC connector for thin Ethernet networks and a RJ-45 connector for 10BASE-T networks.

What You Get with DaynaPORT Pocket SCSI/Link

Pocket SCSI/Link adapters come with these items.

DaynaPORT Installer Disk

DaynaPORT Pocket SCSI/Link driver software, diagnostics, and test utilities are supplied on the *DaynaPORT Installer* disk.

User's Guide and Warranty Registration Card

This guide includes a warranty registration card. Be sure to fill out and return the warranty registration card to us within 30 days of purchase to ensure that your Dayna Ethernet product is registered for its warranty. As a registered customer, you'll receive product information and free issues of the *Dayna Communiqué* newsletter.

Cables and Connectors

All Pocket SCSI/Link models come with a HDI-30 SCSI cable with HDI-30 and DB-25 connectors, which connects to both portable and desktop Macintosh computers. All Pocket SCSI/Link models come with an AC power adapter and/or an ADB power cable. Pocket SCSI/Link-T comes with a 10BASE-T cable, while Pocket SCSI/Link-M comes with a BNC Y-connector and a 10BASE-T cable.

Read Me First File

The Read Me First file on the *DaynaPORT Installer* disk includes information that wasn't available when this guide was printed. To read the file, simply double-click its icon.

Diagnostics Read Me File

The Diagnostics Read Me file is in the self-extracting Diagnostics archive on the *DaynaPORT Installer* disk. Double-click the Diagnostics icon and extract the files onto your hard drive. The Diagnostics Read Me file contains instructions for using the hardware and software diagnostic utilities. These utilities will help you verify that your Pocket SCSI/Link is installed correctly and find the device's Ethernet address. It also describes how to use the SendEcho utility to test your network connection.

Ethernet Address and Serial Number

Each DaynaPORT product has a unique 12-digit Ethernet address. The first six digits are always 00•80•19 and identify Dayna Communications as the manufacturer. Use the Software Diagnostics utility to determine the Ethernet address. Instructions for using the diagnostics are in the Diagnostics Read Me file on the *DaynaPORT Installer* disk.

The DaynaPORT serial number is printed on a sticker on the bottom of the Pocket SCSI/Link. You'll need the serial number if you contact Dayna Customer Service.

Chapter 1

Installing and Connecting Pocket SCSI/Link

Pocket SCSI/Link adapters offer a quick and easy way to connect any Macintosh computer with a SCSI port (that is, Macintosh Plus and later models) to an Ethernet network. Pocket SCSI/Link is particularly well suited for compact Macintosh models such as the PowerBook, Classic, Portable, and Duo that don't have an internal card slot for an Ethernet adapter.

Here's a step-by-step summary of how to install Pocket SCSI/Link.

- Make sure the Macintosh is turned off
- Set the Pocket SCSI/Link's SCSI ID/Termination switch
- Connect Pocket SCSI/Link to the SCSI chain
- Connect Pocket SCSI/Link to the Ethernet cable system
- Plug in Pocket SCSI/Link using the AC adapter or ADB power cable to turn it on
- Switch on the Macintosh and install the DaynaPORT software

Pocket SCSI/Link models come with an HDI-30 SCSI system cable that supports both desktop and notebook Macintosh computers. All Pocket SCSI/Links have a DB-25 SCSI port and an HDI-30 SCSI port that let you connect the Pocket SCSI/Link as either the first, middle, or last device on a SCSI chain.

Pocket SCSI/Link supports System 6.0.5 and later and is fully System 7 compatible. Pocket SCSI/Link supports both AppleTalk Phase 1 and Phase 2 protocols. This means that no matter how large your network becomes, Pocket SCSI/Link lets your Macintosh access any Ethernet network service from any zone.

Note—

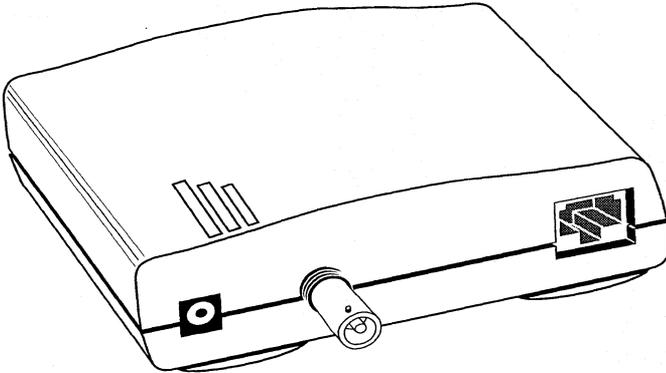
*If you're using the Pocket SCSI/Link as the only device on a PowerBook SCSI/Bus, refer to the section **Connecting and Terminating Pocket SCSI/Links and PowerBooks**. If you're using a PowerBook and Pocket SCSI/Link with multiple SCSI devices, refer to the PowerBook user's guide section entitled **Checking that the SCSI Chain is Properly Terminated** to learn how to connect and terminate a Pocket SCSI/Link on a PowerBook SCSI chain.*

The Pocket SCSI/Link Device

The top of the Pocket SCSI/Link device has three lights representing Power, Activity, and Link Status. The lights are visible as three bars on the top of the device.

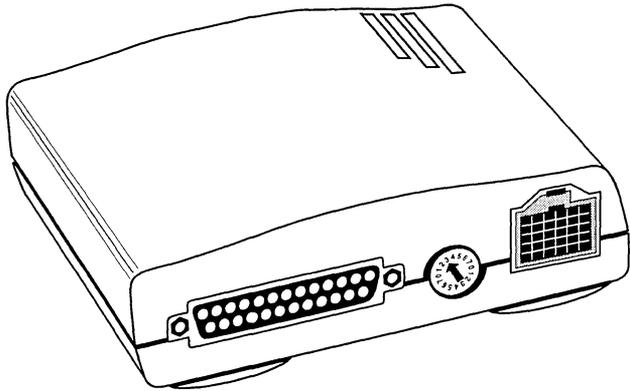
The longest bar is the green power light that comes on when Pocket SCSI/Link is initially turned on. A flashing power light indicates an error condition. The green link status light in the middle of the light bars indicates that the Pocket SCSI/Link-T RJ-45 port is connected to a 10BASE-T cable system that has a valid cable connection to a hub. The shortest bar is the amber activity light that flashes as data is transmitted through the device.

The front of the Pocket SCSI/Link-M has a power port, a RJ-45 connector, and a thin Ethernet BNC connector. The Pocket SCSI/Link-T has a single RJ-45 jack to connect to a 10BASE-T network.



Pocket SCSI/Link-M Front View

The back of the Pocket SCSI/Link has a single switch that handles SCSI ID selection and termination. It also has the DB-25 and HDI-30 SCSI ports that let you connect to your Macintosh SCSI port or to a SCSI bus.



Pocket SCSI/Link Back View

Using SCSI Cables with Pocket SCSI/Link

Pocket SCSI/Link models come with a single HDI-30 SCSI cable that lets you connect to either a PowerBook or desktop Macintosh. This is the only cable you need to connect a Pocket SCSI/Link to any type of Macintosh, but if you have a SCSI chain that contains additional devices, you'll need the kinds of cables that support the devices on your SCSI chain. For example, if you want to connect a SCSI device with a 50-pin connector to Pocket SCSI/Link, you'll need a HDI-30 cable with a 50-pin connector or a 25-pin-to-50-pin SCSI cable.

If you need additional SCSI cables, you can obtain them from your local supplier or contact Dayna Customer Service for assistance.

Connecting Pocket SCSI/Link to the Macintosh SCSI Port

How you connect Pocket SCSI/Link depends on whether Pocket SCSI/Link is the only, first, middle, or last SCSI device connected to your Macintosh. The Pocket SCSI/Link must be part of a SCSI chain that is terminated properly. This chapter contains installation instructions for all four cases and describes how to ensure that your SCSI chain is terminated correctly.

Caution—

Always unplug Pocket SCSI/Link to turn it off when you connect or disconnect it from your Macintosh or any other SCSI device. Never connect or disconnect Pocket SCSI/Link while it is powered on. Doing so could damage the circuits in Pocket SCSI/Link or other connected SCSI devices.

Setting the Termination/ID Switch

You can connect up to six external SCSI devices to your Macintosh through its SCSI port. Each device, including Pocket SCSI/Link, must have its own SCSI ID number for your Macintosh to know it's there and distinguish it from the other SCSI devices. If it's the last device on a SCSI bus, the device must also be terminated.

Pocket SCSI/Link handles setting both the SCSI ID and termination through a single switch on the connector side of the device. It lets you choose from terminated and unterminated SCSI ID numbers.

The Pocket SCSI/Link comes with the SCSI ID pre-set to a terminated SCSI ID of 3. If the Pocket SCSI/Link is the last device in a SCSI chain or the only SCSI device, do not adjust the SCSI ID or termination. If the Pocket SCSI/Link is not the last device in a SCSI chain, select an unterminated SCSI ID. On Pocket SCSI/Link, set the ID number and termination setting using a screw driver or similar tool.



SCSI Termination/ID Switch

If you change the SCSI and/or termination setting, make sure you turn Pocket SCSI/Link off and back on again, and restart your Macintosh.

The switch settings range from 0 to 7 for both the terminated and unterminated settings. Your Macintosh is always identified as number 7. Most Macintosh internal hard drives use a SCSI ID number of 0, but non-Apple drives often use other ID numbers. SCSI ID numbers 2, 3, 4, 5, and 6 are generally available.

If Pocket SCSI/Link is the only SCSI device connected to your Macintosh, it doesn't matter what this switch setting is, as long as it's not 0 or 7. You can leave it at the factory setting of 3.

If there are other SCSI devices connected to your Macintosh, you must find out the number of each and set the SCSI ID of the Pocket SCSI/Link to an unused number. If two devices have the same number, neither will work.

Remember that if you move Pocket SCSI/Link from one Macintosh to another, you may need to change the SCSI ID number each time if there are other SCSI devices attached.

Connecting and Terminating Pocket SCSI/Link

The following sections describe how to connect a Macintosh or PowerBook to Pocket SCSI/Link and terminate the SCSI chain correctly. The illustrations show how to connect a PowerBook to a SCSI bus using Pocket SCSI/Link.

Note—

Always turn your Macintosh off before connecting and disconnecting SCSI devices.

Using Pocket SCSI/Links and PowerBooks

If you connect a Pocket SCSI/Link to a PowerBook, the Pocket SCSI/Link must be turned on or the PowerBook won't boot up, since power is not available through the PowerBook SCSI ports. If you can't boot your PowerBook with a Pocket SCSI/Link connected to its SCSI port, simply turn on the Pocket SCSI/Link, or, if you don't need the Pocket SCSI/Link, remove it from the SCSI port.

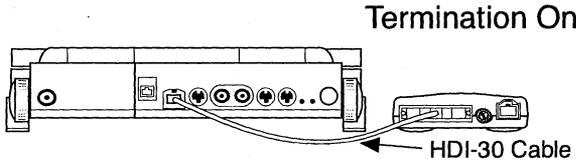
PowerBook computers use a unique SCSI termination strategy. PowerBooks require termination of the first and last devices in a SCSI chain. Refer to your PowerBook user's guide for termination procedures for SCSI buses supporting multiple devices.

As the Only Device

Here's how to install Pocket SCSI/Link as the only SCSI device connected to your Macintosh. Use the HDI-30 SCSI cable provided with your Pocket SCSI/Link. Make sure your Macintosh and Pocket SCSI/Link are turned off.

1. Make sure the Termination/ID switch is in the default position, a terminated 3.
2. Connect the SCSI cable to the SCSI port on your Macintosh and to the SCSI port on your Pocket SCSI/Link.

To connect to a PowerBook, plug the HDI 30 SCSI connector into the PowerBook and the 25-pin SCSI connector into the Pocket SCSI/Link.

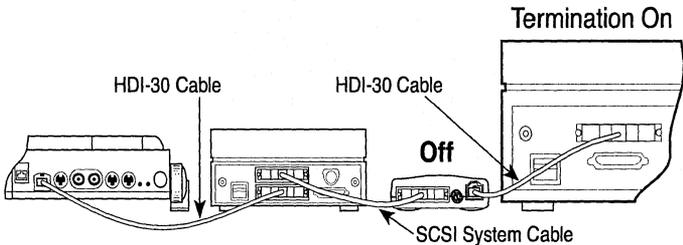


Connecting Pocket SCSI/Link as the Only Device

As the Middle Device

Here's how to connect Pocket SCSI/Link to a Macintosh and another SCSI device in the middle of a SCSI chain. Note that you'll need two HDI-30 cables to connect the Pocket SCSI/Link to a PowerBook and to another device. Make sure to switch off your Macintosh and Pocket SCSI/Link.

1. Set the SCSI Termination/ID switch to an unterminated SCSI ID number between 1 and 6. Make sure the number doesn't conflict with the SCSI ID number of any other device on the SCSI chain.
2. Connect the SCSI cable to the SCSI port of the previous device and to the SCSI port on your Pocket SCSI/Link.
3. Connect an appropriate style SCSI cable from the unused Pocket SCSI/Link SCSI port into the SCSI port of the next SCSI device.
4. Make sure the last SCSI device in the chain is terminated.

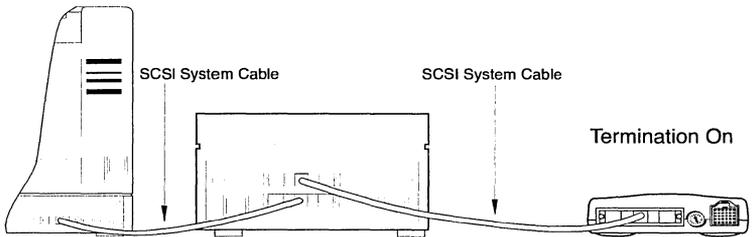


Connecting Pocket SCSI/Link as the Middle Device

As the Last Device

Here's how to connect Pocket SCSI/Link as the last SCSI device in a chain. Make sure to switch off your Macintosh and Pocket SCSI/Link.

1. Make sure the Pocket SCSI/Link Termination/ID switch is set to a terminated SCSI ID number. (You can use the default position, a terminated 3, if no other device in the chain uses 3 as its SCSI ID number.)
2. Connect the SCSI cable to the SCSI port of the next-to-last device on the SCSI chain, and to the SCSI port on your Pocket SCSI/Link.
3. Connect an appropriate style SCSI cable from the unused Pocket SCSI/Link SCSI port into the SCSI port of the next SCSI device.



Connecting Pocket SCSI/Link as the Last Device

Connecting Pocket SCSI/Link to the Network

Here's how to connect the Pocket SCSI/Link to a thin Ethernet or 10BASE-T network through its Ethernet ports.

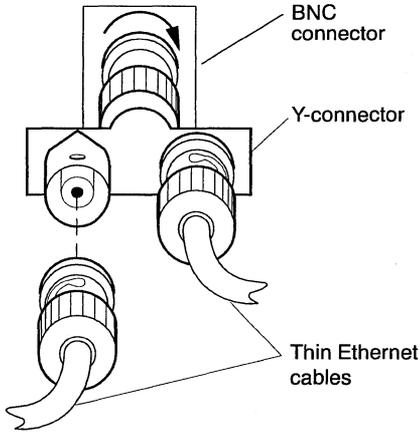
Caution—

Never connect Pocket SCSI/Link-M to more than one cable system. Connecting the device to multiple cable systems can damage the device.

Using the BNC Connector

Here's how to connect Pocket SCSI/Link-M to a thin Ethernet cable.

1. Attach the BNC Y-connector to the thin Ethernet cable. If Pocket SCSI/Link-M is the last device on the cable, make sure that the Ethernet cable is terminated properly with a 50 Ω BNC terminator.

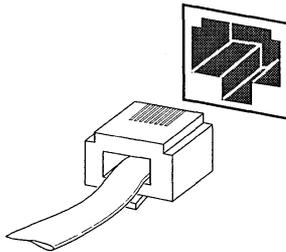


Connecting to Thin Ethernet Cable

2. Attach the BNC Y-connector to the BNC port on the Pocket SCSI/Link-M.

Using the RJ-45 Connector

To connect Pocket SCSI/Link to a 10BASE-T network, simply insert the 10BASE-T cable's RJ-45 plug into the RJ-45 jack on the Pocket SCSI/Link. Plug the other end of the 10BASE-T cable into your network hub. When Pocket SCSI/Link has a working connection to the network hub, the device's link status light will light up.



RJ-45 Plug and Jack for 10BASE-T Cable System

Turning On and Shutting Down Pocket SCSI/Link

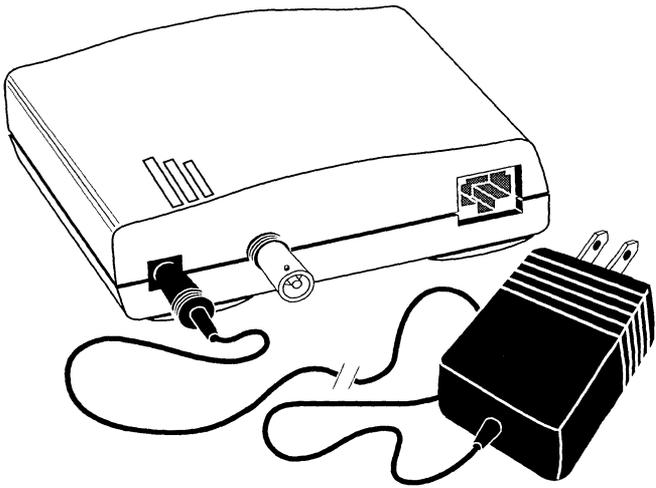
Here's how to turn on Pocket SCSI/Link with either the AC adapter or ADB power cable.

Note—

Always power on the Pocket SCSI/Link device before switching on the Macintosh.

Using the External AC Adapter

1. Connect the DC adapter cord to the Pocket SCSI/Link power port and then plug the AC adapter into an electrical outlet. This turns on Pocket SCSI/Link.



AC Adapter

The green power light will turn on, and the amber activity light on the top of Pocket SCSI/Link will flash on and off in response to network broadcasts.

On Pocket SCSI/Link-T models, the green link status light will flash on and then off, and then remain on when the adapter has a working connection to a hub.

Note—

If the power light flashes, it indicates a hardware error. Contact Customer Service at 801-269-7200 for assistance.

2. Switch on the Macintosh and install the DaynaPORT software.

Note—

The activity light will flash in response to a network broadcast even before the driver is loaded.

Once you've turned on Pocket SCSI/Link, it will automatically shut down and start up with your Macintosh.

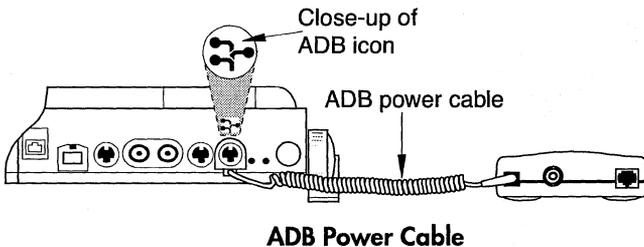
Using the ADB Power Cable

The ADB power cable may be used in place of the AC adapter by following these steps.

Caution—

Do not "hot plug" any ADB devices while the Macintosh computer is turned on. All ADB connections should be established prior to turning on the Macintosh computer.

1. Connect the ADB power cable to the Pocket SCSI/Link power port and insert the other end into the ADB port at the back of the computer.



ADB Power Cable

Note—

*Plug the ADB power cable into the ADB jack at the back of the computer, **not** into keyboard or mouse ADB jacks. Always use the PowerBook's AC adapter when the Pocket SCSI/Link is attached to the ADB port. If not, increased battery drain will reduce PowerBook operation time by about 30%.*

On Pocket SCSI/Link-T models, the green link status light will flash on and then off, and then will come on when the adapter has a working connection to a hub.

Note—

If the power light flashes, it indicates a hardware error. Contact Customer Service at 801-269-7200 for assistance.

2. Switch on the Macintosh and install the DaynaPORT software. The activity light will flash in response to a network broadcast even before the driver is loaded.

Once you've turned on Pocket SCSI/Link, it will automatically shut down and start up with your Macintosh.

Caution—

No additional ADB powered devices should be used when the Pocket SCSI/Link is connected to the PowerBook's ADB port. External keyboards, mouse devices (such as trackballs), and ADB-powered modems may cause unreliable Ethernet operation and could potentially damage the host computer.

The Macintosh Plus computer does not have an ADB port. If you want to use the Pocket SCSI/Link with a Macintosh Plus, call Dayna Customer Service to order the necessary 5V, 1.0 Amp power supply.

Caution—

Dayna does not recommend using ADB power when connecting to and using thin Ethernet (10BASE-2) cabling. If you want to use ADB power with thin Ethernet cabling, set the SCSI termination switch to one of the termination off SCSI ID positions. The Pocket SCSI/Link should not be used as the last device in a SCSI chain when more than one external SCSI device is connected. Instead, simply use the Pocket SCSI/Link as an intermediary device in the SCSI chain.

Understanding the Activity Light

The activity light is the shortest light on the top of the Pocket SCSI/Link. It flashes amber when the hardware is working, indicating that the Macintosh can communicate with the Ethernet network and that data is being transmitted through the device.

Removing the Pocket SCSI/Link Device

Before removing Pocket SCSI/Link, shut down your Macintosh and either unplug the AC adapter from the electrical outlet or disconnect the ADB power cable. Remove the cables that connect Pocket SCSI/Link to the Macintosh. To remove the DaynaPORT software, refer to the section **Removing the DaynaPORT Software** in Chapter 2.

Chapter 2 Installing the DaynaPORT Software

This chapter describes how to install the DaynaPORT software in a Macintosh workstation and select the EtherTalk Alternative icon in the Network control panel.

Note—

The Pocket SCSI/Link should be fully installed and connected to the network cable before you install the software.

This chapter also describes how to remove the DaynaPORT software from the Macintosh. If you permanently disconnect the Macintosh from the Ethernet network, you may wish to remove the DaynaPORT software to save memory.

The Installer automatically identifies the DaynaPORT hardware and type of Macintosh, and the System and EtherTalk versions installed on your workstation. The Easy Install procedure will automatically install the correct version of the DaynaPORT software.

Before Running the Installer

Before running the Installer, make sure you've installed the DaynaPORT hardware correctly. You should also remove all virus protection software from your System Folder, turn off all System Extensions (or Inits), and restart your computer. (Under System 7, you can simply hold down the SHIFT key while you restart.) If you run the Installer without turning off your virus protection software, you may get a warning that the Installer is damaged.

The Installer requires you to close all applications and restart your Macintosh. If you launch the Installer while running other applications, the Installer will let you terminate the installation or exit from the application and continue. Under some conditions, the Installer will display a notification dialog even though you're not running any other applications. In this case, simply click CONTINUE.

The DaynaPORT software requires less than 100K of disk space. However, to install the software on your currently active disk, you must have enough room on the disk for the Installer to create a temporary copy of your System file.

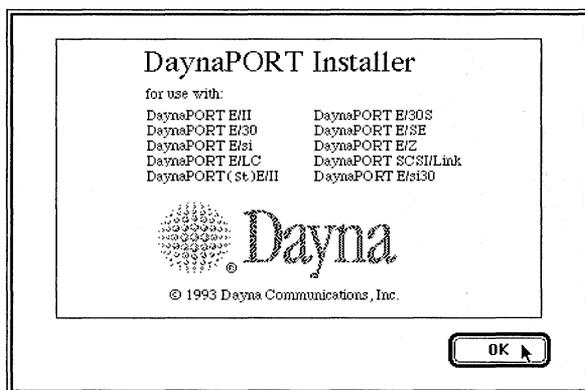
DaynaPORT Software Easy Install

Here's the easy way to install the DaynaPORT software.

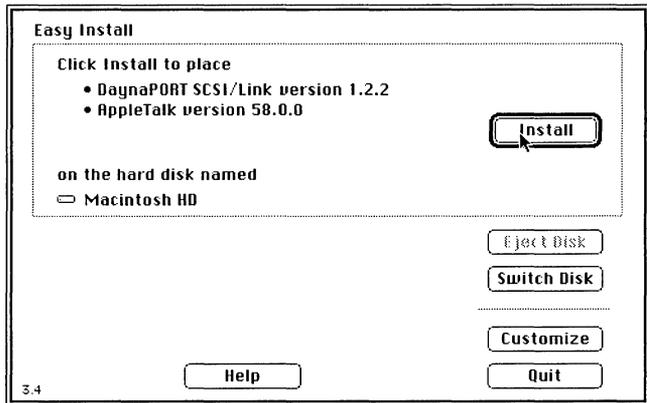
1. Install and connect your DaynaPORT device and start up your Macintosh. Insert the *DaynaPORT Installer* disk in the floppy disk drive.
2. Double-click the Installer icon on the *DaynaPORT Installer* disk.



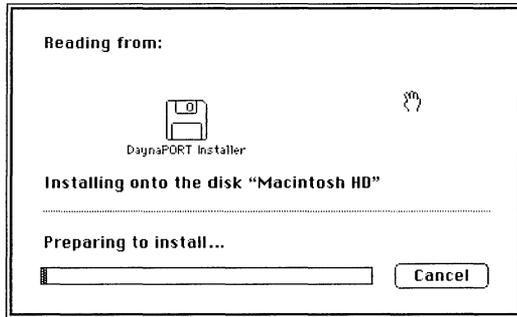
3. This dialog box will open. Click OK.



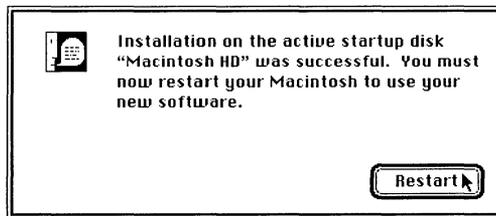
4. The Easy Install dialog box will open. It lists the driver for the DaynaPORT device used with your Macintosh, the system version, and the version of AppleTalk the driver supports. Make sure the options are correct for your Macintosh and click the INSTALL button.



5. The Installer automatically installs the DaynaPORT software. During the installation, the Installer displays a status dialog like this.



6. Upon completion, the Installer displays a dialog box telling you that the installation was successful.



7. Click the RESTART button to restart the Macintosh.

Choosing the Software Connection

This section describes how to use the Network control panel to select the correct EtherTalk driver for AppleTalk Phase 1 or Phase 2 protocols on your Ethernet network, and how to switch back to LocalTalk.

Selecting a Phase 2 Connection

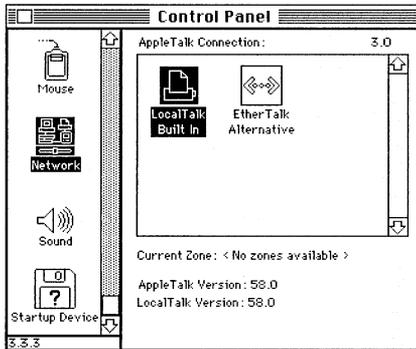
Here's how to choose Phase 2 support for the Ethernet networking system.

1. Access the Control Panel. Locate the Network control panel icon and double-click to launch it.

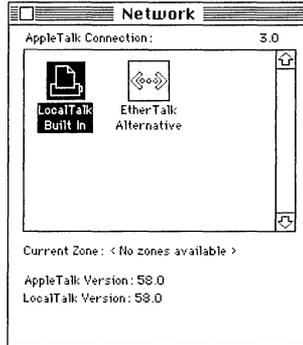


Network

Under System 6, the Network control panel looks something like this when you select the Network icon.



Under System 7, you'll see a window that looks like this.



The Network control panel can contain several icons. The LocalTalk Built-In icon represents AppleTalk network protocols on a LocalTalk networking system.



LocalTalk
Built-In

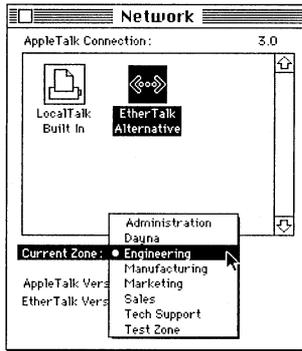
The EtherTalk Alternative icon represents the driver for external DaynaPORT adapters.



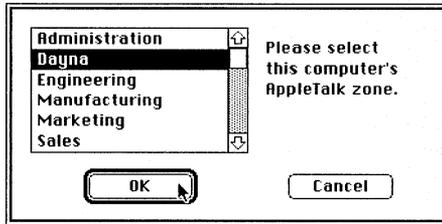
EtherTalk
Alternative

2. To select Phase 2, click the EtherTalk Alternative icon, and close the Control Panel. If the LocalTalk Built-In icon was previously selected (which is usually the case), you'll see a message warning that the current network services will be disrupted. Click OK.

3. If there is a Phase 2 gateway on your network, you can assign your Macintosh to a zone. To do so, open the Network Control Panel and select a zone in the CURRENT ZONE pull-down menu.



You can also double-click the EtherTalk Alternative icon to open the ZONES dialog box. Select an AppleTalk zone, click OK, and close the Control Panel.



4. Your Macintosh is now assigned to the zone you've selected.
If you don't select a zone, your Macintosh will be located in the network's default zone. If you select a Phase 2 zone, other users will see any network services (such as mail services) handled from your workstation in that zone.

Installing the Phase 1 Driver

If your network uses AppleTalk Phase 1 protocols, here's how to install them for use with DaynaPORT.

1. Install the DaynaPORT software as already described. Insert the *DaynaPORT Installer* disk and open the EtherTalk Phase 1 folder.

2. Drag the ET Phase 1 icon (the icon with single arrows) to your System Folder. (Under System 7, make sure the file is installed in the Extensions folder.)



ET Phase 1

3. Restart your Macintosh. Follow the procedures in the next section to select the Phase 1 driver.

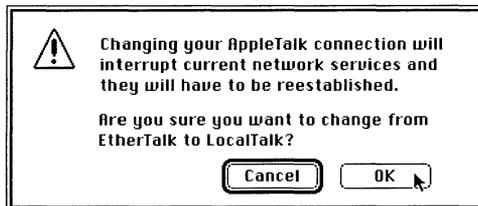
Selecting a Phase 1 Connection

Here's how to select Phase 1 support for the Ethernet networking system.

1. Access the Control Panel. Locate the Network control panel icon and double-click the icon to launch it.
2. To select Phase 1, click the ET Phase 1 icon.
3. Close the Network control panel and use the Chooser to connect with network devices such as servers and printers.

Changing the Network Connection

Whenever you select a new network connection after using the current connection in any way (even to view a list of services in the Chooser), a warning like this will appear.



If you need to close or back up your files on an AppleShare server, or you don't want to end your current connection, click CANCEL. If you want to complete the change in your network connection, click OK and close the Network control panel.

Switching to LocalTalk

If the Macintosh has both a LocalTalk and an Ethernet connection, you can switch to the LocalTalk connector at any time. Simply access the Network control panel and click the LocalTalk Built-In

icon to use the LocalTalk system. When the warning dialog appears, click OK. Close the Network control panel and check the Chooser for LocalTalk devices.

Note—

If your network has LocalTalk network printers, but doesn't use a network device such as Dayna's EtherPrint, a router, or gateway to allow Ethernet network devices to access LocalTalk printers, switch to the LocalTalk Built-In connection to print.

Switching Between AppleTalk Phase 1 and Phase 2

If your Ethernet network supports both AppleTalk Phase 1 and Phase 2 network devices, you might need to switch between Phase 1 and Phase 2 to access all the available services.

If you install and choose Phase 2 on the Macintosh, and you find that you can't see an AppleTalk service in the Chooser, access the Network control panel and click the ET Phase 1 icon. When the warning appears, click OK. Close the Network control panel and check the Chooser for Phase 1 devices.

Similarly, if you install and choose Phase 1, you might not be able to access Phase 2 nodes. To select the Phase 2 driver, open the Network control panel and click the Phase 2 EtherTalk Alternative icon. When the warning appears, click OK. Close the Network control panel and check the Chooser for Phase 2 devices.

Changing the AppleTalk Zone

When you're running Phase 2 software, you're automatically assigned to the default zone or prompted to select a zone name from a list. This is the zone that your system resides in and it does not necessarily affect your ability to use services in other zones.

To change your zone, open the Network control panel and select the zone from the pop-up menu. You'll remain in the selected zone until you change the network connection or choose another zone.

Note—

If your computer provides services to other users on the network, you may want to notify them when you change zones.

Removing the DaynaPORT Software

To remove the DaynaPORT software from your startup disk, use the Installer on the *DaynaPORT Installer* disk.

1. Launch the Installer. The Easy Install dialog box will open. Note which version of the DaynaPORT software is listed in the window. Click CUSTOMIZE.

Note—

If you remove the Pocket SCSI/Link before removing the driver, the Easy Install dialog box will not contain accurate information about which Pocket SCSI/Link is installed. You can still remove the software, provided you know which system and AppleTalk phase the driver supported.

2. The Custom Install dialog box will open. Click the version that matches the information displayed in the Easy Install dialog box.
3. Hold down the OPTION key. The INSTALL button will become a REMOVE button. Click the REMOVE button and the DaynaPORT software will be removed from your system. You'll get a message that the installation was successful and you need to restart your Macintosh. Click RESTART.

Note—

You can also use the Customize option to install drivers for multiple adapters installed in your machine, or to install drivers on other boot disks.



Chapter 3

Solving Problems

This chapter describes problems you may encounter installing and using DaynaPORT hardware and software. It assumes that you've followed this guide's installation instructions and that your system is connected to a functioning Ethernet network.

Checking the Hardware

In general, if you have a problem establishing a network connection for the Macintosh with Pocket SCSI/Link, check the hardware connection first and run the Hardware Diagnostics as described in the Diagnostics Read Me file on the *DaynaPORT Installer* disk. The Diagnostics Read Me file is in the compressed Diagnostics file. Double-click to decompress the file and extract the files onto your hard drive.

Check that the network connector is attached correctly. Also, verify that your network cable system meets Ethernet cabling standards.

If you're connected to thin Ethernet cable, follow these steps.

- Twist the sleeve on the Y-connector or T-connector to make sure the connection is secure
- Make sure both ends of the Y-connector or T-connector are connected to the thin Ethernet cable and the cable ends are terminated properly with 50Ω BNC terminators
- Make sure the workstation uses a Y-connector or T-connector and is not "directly connected" to the Ethernet cable. Such a connection will disrupt the entire network

If you're connected to a 10BASE-T cable system, make sure the link status light is lit. If not, reseal the plug in the jack.

Checking the Network Software

When you've verified that the hardware is installed properly, check the software installation instructions in Chapter 2. You may want to run the Software Diagnostics as described in the Diagnostics Read Me file on the *DaynaPORT Installer* disk. Double-click the compressed Diagnostics archive file on the disk and extract the files onto your hard drive.

In the Chooser, make sure that the AppleTalk ACTIVE radio button is enabled.

Check the Network control panel to make sure that the correct Network icon is selected. The LocalTalk Built-In icon identifies a LocalTalk network connection through the printer port. Make sure to select the EtherTalk Alternative icon for an Ethernet connection.

The AppleTalk Phase 1 and Phase 2 icons choose the respective Phase 1 or Phase 2 protocols. In certain circumstances, choosing either protocol can prevent you from “seeing” the other protocol’s services. If you can’t communicate with a service, try installing and choosing the other icon in the Network control panel. Then use the Chooser to see if the service is visible.

Appendix A

Service, Support, Sales, and Specifications

Dayna Communications offers customers technical support, product information, and sales assistance.

Technical Support

Technical support is free to any owner of a registered Dayna product. To register your product, fill out the warranty registration card included in the guide and mail it to Dayna or FAX it to (801) 269-7363 (269-SEND). This will ensure that your DaynaPORT adapter is registered for a lifetime warranty on hardware.

Customer Service personnel are experts in using all Dayna products. They are available to help you when you run into problems not explained in this guide.

Before calling Customer Service, find the serial number on the sticker on the bottom of the DaynaPORT device. Call (801) 269-7200 between 8:00 AM and 5:00 PM Mountain Time, Monday through Friday. Ask for Customer Service. Please have your product serial number ready when you call.

Customer Service maintains a 24-hour bulletin board that you can access to download the latest versions of drivers and other software.

Dayna Communications Bulletin Board

Baud Modem (up to 14400): (801) 269-7398

Setup: N81

Login: Use your own name or company name

You can also contact Dayna Customer Service using the following on-line services under these ID names.

AppleLink: DAYNA.TECH
E-mail Address support@dayna.com
FTP Site ftp.dayna.com
WWW Page www.dayna.com
America Online: DAYNACOM

Dayna's mailing address is:

Dayna Communications, Inc.
Sorenson Research Park
849 West Levoy Drive
Salt Lake City UT 84123

Again, our service numbers are:

Customer Service (801) 269-7200
FAX (801) 269-7363 (269-SEND)

Product Information and Sales

Sales representatives are available to give you information about any Dayna product and to take your order. For product information, call (801) 269-7200 and ask for Sales.

Pocket SCSI/Link Specifications

Operating Environment

Operating Temperature: 10° to 40° C (50° to 104° F)
Storage Temperature: 10° to 40° C (50° to 104° F)
Relative Humidity: 5% to 95% (noncondensing)
Altitude: 0 to 12,000 feet

Power

Apple Desktop Bus (ADB) power cable or
External 5 VDC 1.0A adapter
90-130 or 220-240 VAC 50-60 Hz (factory configurable)

Caution—

Do not use an AC-AC power adapter with Pocket SCSI/Link.
Use only the AC-DC power adapter supplied with Pocket SCSI/Link or a 120V 60Hz 25W input/5 VDC 1.0 Amp output adapter for U.S. power systems and 240V 50Hz 12W input/5 VDC 1.0 Amp output adapter for foreign power systems.

Physical Description

Size: 4.25 in. x 3.1 in. x 1.25 in.
Weight: 5.2 oz.

Connectors and Cables

HDI-30/DB-25 Cable
BNC "Y" Connector
Twisted Pair Cable for RJ-45

Certification

FCC Class A

Glossary

activity light

The amber activity light is the shortest bar on the top of the Pocket SCSI/Link device. It flashes while data is being transmitted through the Pocket SCSI/Link.

AppleTalk Phase 2

AppleTalk Phase 2 protocols provide extensions to the Ethernet networking system that support multiple zones and more devices.

BNC connector

The BNC connector is used to connect thin Ethernet cables and network devices using a BNC Y-connector or T-connector.

EtherTalk

A high-speed AppleTalk network system that uses the cables of an Ethernet network.

EtherTalk Alternative

The name of the EtherTalk driver shown in the Network control panel that supports Pocket SCSI/Link devices. You must select this icon in the control panel to activate your network connection.

external transceiver

External transceivers are needed to connect thick Ethernet or fiber-optic cables to DaynaPORT devices. Typically, the transceiver box connects to the Ethernet trunk line and uses a transceiver cable with an AUI connector to attach to DaynaPORT devices.

link status light

The green link status light is the middle bar on the top of the Pocket SCSI/Link. It indicates that the Pocket SCSI/Link-T RJ-45 port is connected to a 10BASE-T cable system that has a valid cable connection to a hub.

power light

The longest bar on the top of the Pocket SCSI/Link is the green power light that comes on when Pocket SCSI/Link is initially turned on. A flashing power light indicates an error condition.

SendEcho

A test utility that can help you determine if the DaynaPORT hardware and software are installed and working properly.

10BASE-T cable

An Ethernet cable system using unshielded twisted-pair wiring with RJ-45 eight-conductor plugs at each end. 10BASE-T cable standards are defined by the IEEE Std. 802.3.

thick Ethernet

Thick Ethernet refers to industry-standard Ethernet cable or any other cable that uses the IEEE 802.3 Media Access Unit (MAU) interface.

thin Ethernet cable

Usually quarter-inch black coaxial cable, identified by type such as RG-58/U. Sometimes called 10BASE2 cable.

zone

A logical grouping of devices in an internet that makes it easier for users to locate network services. Zones are defined during the router setup.

zone name

A name defined for each zone in an internet. A LocalTalk network can have just one zone name. An AppleTalk Phase 1 network can have just one zone name. An AppleTalk Phase 2 network can have multiple zone names, called a zone list.

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