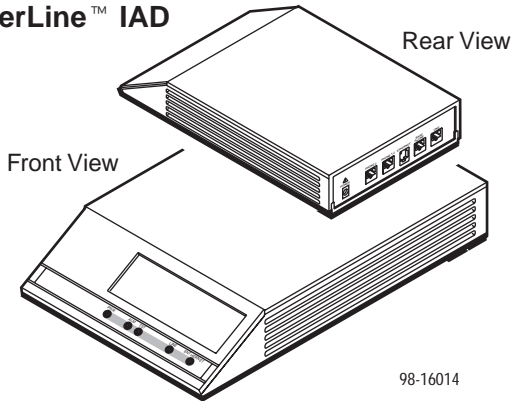


SuperLine™ Integrated Access Device Model 6512-A1 Installation Instructions

Document Number 6512-A2-GN11-00

May 1999

SuperLine™ IAD



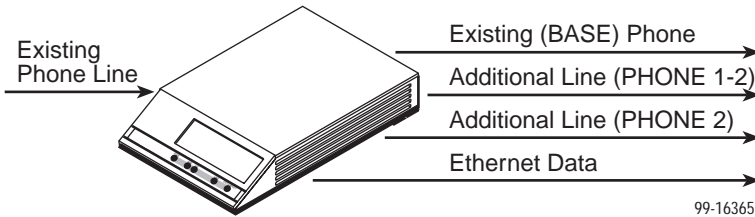
98-16014

Contents:

- What Your SuperLine Integrated Access Device (IAD) Does
- Package Checklist
- Optional Hardware (Not Supplied)
- Front Panel Indicators
- SuperLine IAD Rear Panel
- Installing Your SuperLine IAD
- Troubleshooting Your SuperLine IAD
- Technical Information
- Technical Specifications
- Technical Support
- Important Safety Instructions

What Your SuperLine Integrated Access Device (IAD) Does

Your SuperLine IAD is a line adapter that allows you to connect multiple phones, fax machines, or modems using your existing telephone wiring.



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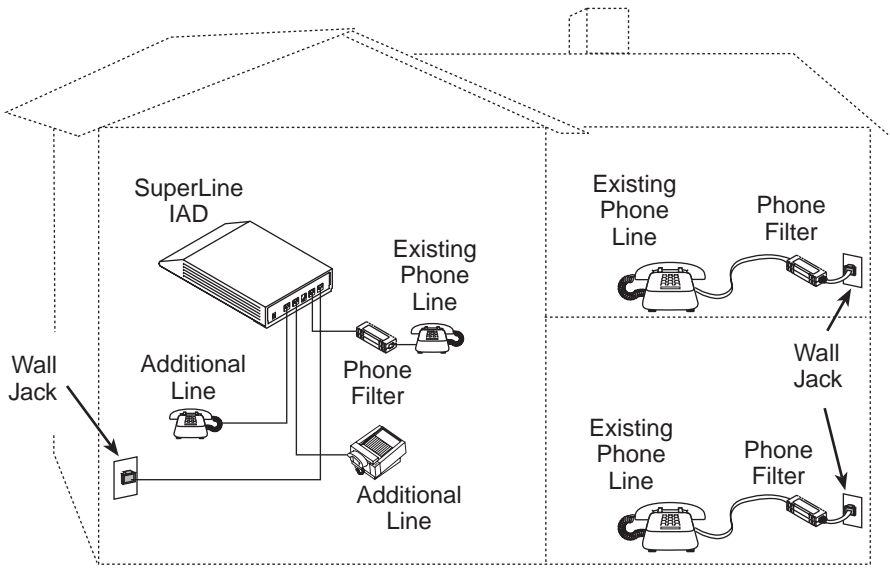
The SuperLine IAD:

- Transforms your existing single phone line into multiple phone lines to support up to two additional phones, fax machines, or modems simultaneously.
- Operates over your existing copper wire with your existing telephone jacks.
- Allows V.90 modem connections on your additional lines.
- Provides high-speed Internet access through an Ethernet connection. (Available in some areas. Ask your service provider about availability of this service.)
- Only operates with Touch Tone™ phones. The PHONE 1-2 and PHONE 2 jacks do not support pulse dial phones. (Your existing phone, plugged into the BASE PHONE jack, can be a pulse dial phone.)

NOTE:

Your service provider must enable these services and assign phone numbers to the additional phone lines before your SuperLine IAD will work.

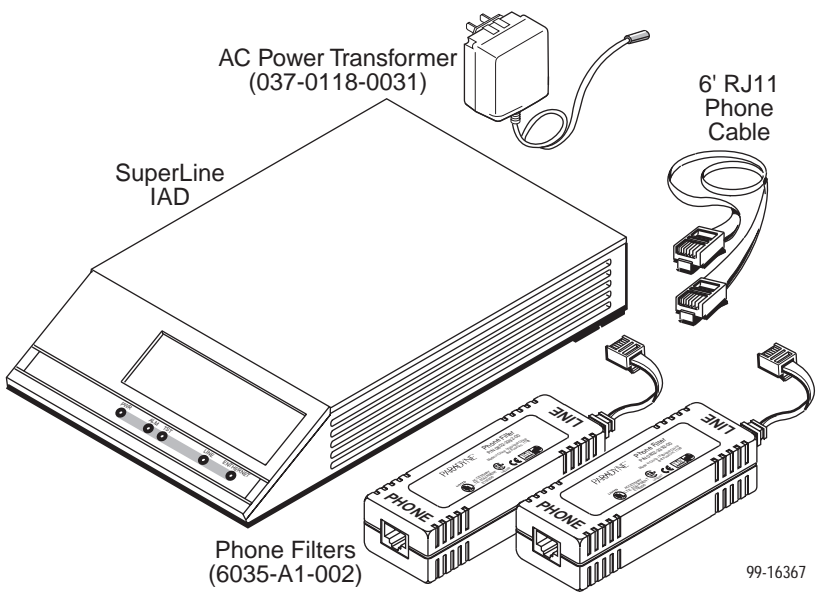
The SuperLine IAD connects to your existing phone line to provide up to two additional phone lines. These additional lines support any combination of up to two phones, fax machines, or modems. Your SuperLine IAD also allows V.90 modem speeds with an International Telecommunications Union (ITU) V.90 standard modem. The following figure depicts a typical home or small office configuration with several existing phones and two additional lines. Phone filters are connected to your existing phones to reduce the amount of interference generated during phone conversations.



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Package Checklist

Verify that your package contains the following hardware. If any hardware is missing or you need to order additional hardware, contact your service provider. Refer to *Technical Information* on page 23 for further information.



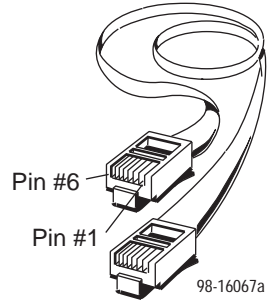
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Optional Hardware (Not Supplied)

The following hardware may be required depending on which configuration you choose to install. You can purchase these items from your local electronics or phone store.

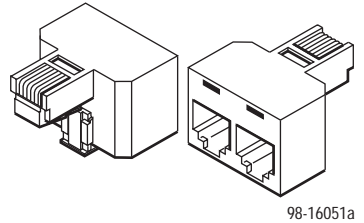
2-Line Phone Cable (RJ14C)

If you are connecting a 2-line phone, you may require a 2-line phone cable (24 AWG, RJ14C) as defined in *Connecting a 2-Line Phone (with Two Additional Lines)* on page 12. Refer to *Technical Information* on page 23 for the 2-line phone cable pin configuration.



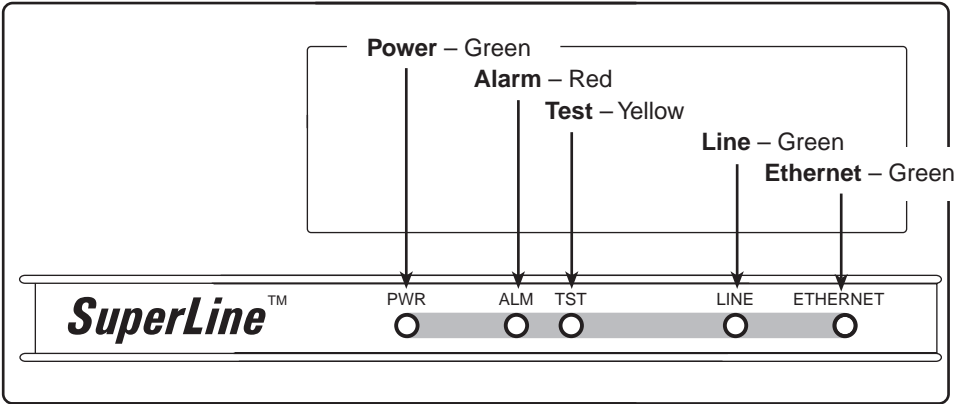
“T” Type Connector

If your home or office phone jacks are wired internally with 4 wires, you may be able to connect phones in other rooms to your SuperLine IAD using a “T” type connector as defined in *Optional Configuration* on page 16. Refer to *“T” Type Connector* on page 25 for the “T” type connector pin configuration.



Do not use a “T” type connector to connect two SuperLine IADs to a single wall jack.

Front Panel Indicators



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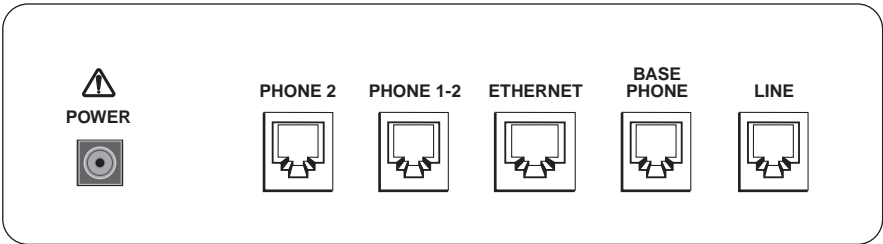
All of the SuperLine IAD's indicators turn ON and OFF during the power-on self-test. After a successful power-on self-test, the SuperLine IAD's indicators should appear as indicated in **BOLD** in the Condition column of the following table:

Indicator	Condition	Status
PWR	ON	Power is applied to the SuperLine IAD.
ALM	OFF ON	No active alarms. An alarm condition exists which may require further attention. Refer to <i>Troubleshooting Your SuperLine IAD</i> on page 21.
TST	OFF ON	No active tests. The TST indicator is ON during the power-on self-test and during testing or upgrades initiated by your service provider. Additional lines are not available when the TST indicator is ON. Your existing (BASE) phone still works.
LINE	ON OFF	Your SuperLine IAD is connected to your local phone company and is ready to use. The link has not been established.
ETHERNET	ON OFF	The Ethernet connection to your PC or Ethernet Hub is made and your PC is ON. No Ethernet device is detected.

Under normal operation, if the PWR and LINE indicators are on you should be able to use your new phone lines. The ETHERNET indicator state depends on the equipment you have connected to your SuperLine IAD. The TST and ALM indicators can be initiated by your service provider. For conditions other than these, refer to *Troubleshooting Your SuperLine IAD* on page 21 for indicators requiring action.

SuperLine IAD Rear Panel

The rear panel of your SuperLine IAD has six jacks.



98-16095

Rear Panel Jacks

This Jack . . .	Allows You To . . .
POWER	Apply power to your SuperLine IAD.
PHONE 2	Connect a phone, fax machine, or modem if you have ordered two additional lines. This jack is not functional if you have only one additional line through your SuperLine IAD.
PHONE 1-2	Connect a phone, fax machine, or modem if you have one or two additional lines. This jack is also used to connect a 2-line phone with a single 2-line phone cable if you have ordered two additional lines.
ETHERNET	Connect high-speed Ethernet data services. Ask your service provider about the availability of high-speed Ethernet data services.
BASE PHONE	Connect your existing phone to the SuperLine IAD. This jack provides uninterrupted phone service in the event of a power outage.
LINE	Connect your SuperLine IAD to the existing phone's wall jack.

Installing Your SuperLine IAD

Before you install your SuperLine IAD, read the *Important Safety Instructions* on page 27.

There are several ways to connect your SuperLine IAD, depending on your current phone configuration, data needs (Internet), and future needs. You can connect any combination of two phones, fax machines, or modems through your SuperLine IAD. Any device connected to your SuperLine IAD must be FCC Part 68-registered for the U.S. and Industry Canada CS-03-certified for use in Canada.

- **Connecting Multiple Phones, Fax Machines, or Modems to Your SuperLine IAD**

This procedure describes how to connect multiple phones, fax machines, or modems to your SuperLine IAD (page 8).

- **Connecting a 2-Line Phone (with Existing Phone and One or Two Additional Lines)**

This procedure describes how to connect a 2-line phone to your SuperLine IAD if you have ordered one or two additional lines with your SuperLine IAD (page 10).

- **Connecting a 2-Line Phone (with Two Additional Lines)**

This procedure describes how to connect a 2-line phone to your SuperLine IAD if you have ordered two additional lines with your SuperLine IAD (page 12). You can also connect the third line of a 3-line phone or an additional phone, fax machine, or modem.

- **Connecting a Modem to Your SuperLine IAD**

This procedure describes how to connect a modem through the PHONE 1-2 and PHONE 2 jacks on your SuperLine IAD rear panel (page 14).

- **Optional Configuration**

This procedure describes how to connect multiple phones, fax machines, or modems in separate rooms (page 16). This configuration may not be applicable in all homes or small offices.

- **High-Speed Data Service**

This procedure describes how to connect your SuperLine IAD to a PC or Hub for high-speed Internet services using the Ethernet port (page 18). This feature may not be available in your area. Contact your local phone company for further information.

- **Connecting Phone Filters to Your Existing Phones**

This procedure describes how to connect a phone filter to your existing phones (page 19).

- **Applying Power to the Unit**

This section provides steps to apply power to your SuperLine IAD and verify its proper operation (page 20).

Connecting Multiple Phones, Fax Machines, or Modems to Your SuperLine IAD

Hardware Required (Supplied)

- 6-foot RJ11 phone cable.

Hardware Required (Not Supplied)

- Existing RJ11 phone cables.

► Procedure

Use the following procedure and supporting figure to connect your SuperLine IAD with up to two additional phones, fax machines, or modems in the same room.

Existing Phone Line

- ➊ Plug one end of your phone cable into the LINE jack on the SuperLine IAD rear panel.
- ➋ Connect the other end of the cable into the wall jack.
- ➌ Connect your existing phone to a phone filter and connect the phone filter to the BASE PHONE jack on the SuperLine IAD rear panel. For optimal performance, do not use the BASE PHONE jack to connect a modem.

NOTE:

If you lose power to your SuperLine IAD, the phone connected to the BASE PHONE jack, and other phones connected to the same line as the SuperLine IAD, will still be operational.

Second Phone, Fax Machine, or Modem:

- ➍ Connect a second phone, fax machine, or modem to the PHONE 1-2 jack on the SuperLine IAD rear panel using the supplied cable.

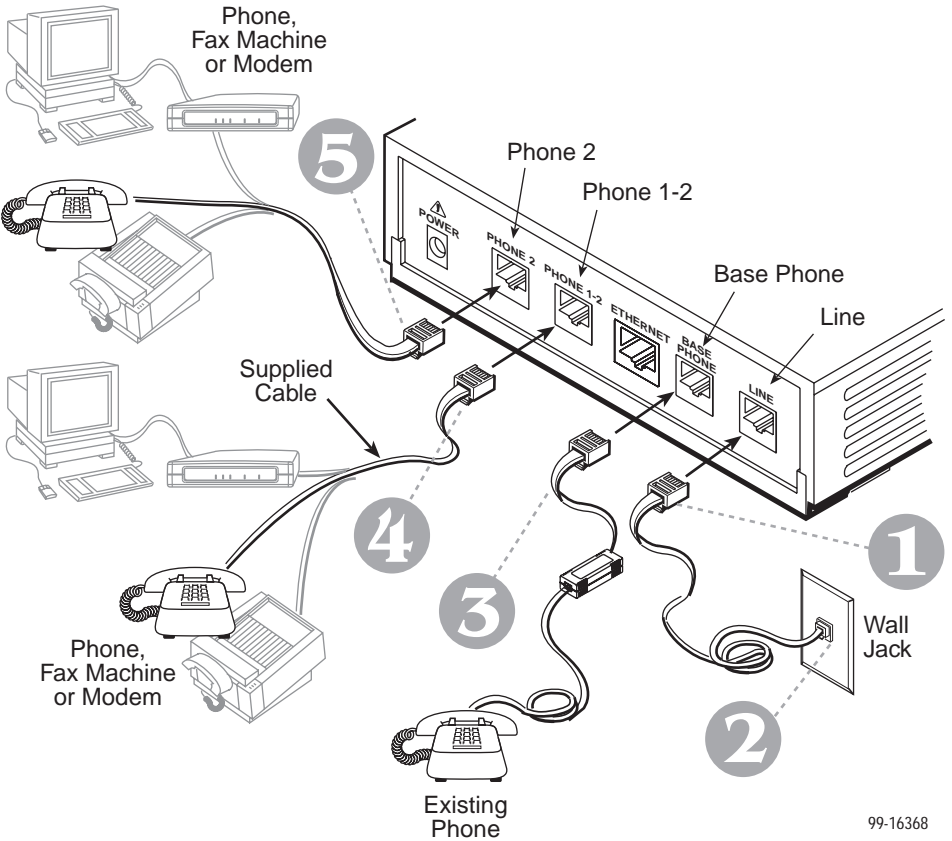
NOTE:

If you use the PHONE 2 jack, do not use a 4-wire phone cable to connect phones, fax machines, or modems to the PHONE 1-2 jack. A 4-wire phone cable connected to the PHONE 1-2 jack may cause interference on phones, fax machines, or modems connected to the PHONE 2 jack. Use the supplied cable.

Third Phone, Fax Machine, or Modem:

- ➎ Connect a third phone, fax machine, or modem to the PHONE 2 jack on the SuperLine IAD rear panel using one of your existing cables.

To complete your SuperLine IAD installation, refer to *Connecting Phone Filters to Your Existing Phones* on page 19, and *Applying Power to the Unit* on page 20.



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Connecting Multiple Phones, Fax Machines, or Modems to Your SuperLine IAD

CAUTION:

Do not attempt to connect phone cables from the PHONE 1-2 and PHONE 2 jacks to phones located outdoors. Keep all wiring connected to the PHONE 1-2 and PHONE 2 jacks within your home or office.

Connecting a 2-Line Phone (with Existing Phone and One or Two Additional Lines)

Hardware Required (Supplied)

- 6-foot RJ11 phone cable.

Hardware Required (Not Supplied)

- Existing RJ11 phone cables.

► Procedure

Use the following procedure and supporting figure to connect your SuperLine IAD to a single phone with two lines. This configuration can be used if you have one or two additional phone lines through your SuperLine IAD.

Line 1:

- ❶ Plug one end of your phone cable into the LINE jack on the SuperLine IAD rear panel.
- ❷ Insert the other end of the phone cable into the wall jack.
- ❸ Connect Line 1 of your 2-line phone to a phone filter and connect the phone filter to the BASE PHONE jack on the SuperLine IAD rear panel.

Line 2:

- ❹ Connect Line 2 of the 2-line phone to the PHONE 1-2 jack on the rear of the SuperLine IAD using the supplied cable.

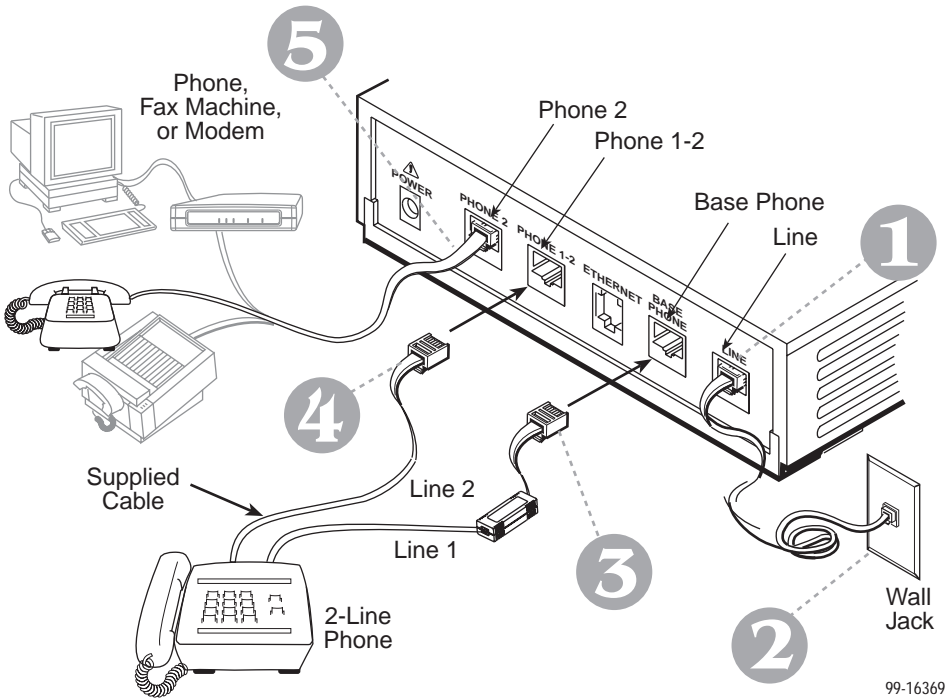
NOTE:

If you use the PHONE 2 jack, do not use a 4-wire phone cable to connect phones, fax machines, or modems to the PHONE 1-2 jack. A 4-wire phone cable connected to the PHONE 1-2 jack may cause interference on phones, fax machines, or modems connected to the PHONE 2 jack. Use the supplied cable.

Second Phone, Fax Machine, Modem, or Line 3:

- ❺ If you have ordered two additional lines, you can connect a second phone, fax machine, modem, or Line 3 of a 3-line phone to the PHONE 2 jack on the SuperLine IAD rear panel using one of your existing cables.

To complete your SuperLine IAD installation, refer to *Connecting Phone Filters to Your Existing Phones* on page 19, and *Applying Power to the Unit* on page 20.



99-16369

Connecting a 2-Line Phone (with One or Two Additional Lines)

CAUTION:

Do not attempt to connect phone cables from the PHONE 1-2 and PHONE 2 jacks to phones located outdoors. Keep all wiring connected to the PHONE 1-2 and PHONE 2 jacks within your home or office.

Connecting a 2-Line Phone (with Two Additional Lines)

Hardware Required (Not Supplied)

- A 2-line phone cable (RJ14C) to connect Lines 1 and 2 of your 2-line phone to your SuperLine IAD. Refer to *Technical Information* on page 23 for RJ14C phone cable pin configuration.
- Existing RJ11 phone cables to connect the SuperLine IAD to the wall jack and your existing phone to the SuperLine IAD.

► Procedure

Use the following procedure and supporting figure to connect your SuperLine IAD to a single phone with two lines.

NOTE:

Use this configuration only if you have two additional phone lines through your SuperLine IAD.

Lines 1 and 2:

- ❶ Plug one end of your phone cable into the LINE jack on the SuperLine IAD rear panel.
- ❷ Insert the other end of the cable into the wall jack.
- ❸ Connect your 2-line phone using the 2-line RJ14C phone cable to the PHONE 1-2 jack on the SuperLine IAD rear panel. The 2-line phone cable connects both lines through the PHONE 1-2 jack.

NOTE:

The PHONE 2 jack cannot be used to connect a fax machine or modem in this configuration.

Existing Phone, Fax Machine, or Modem:

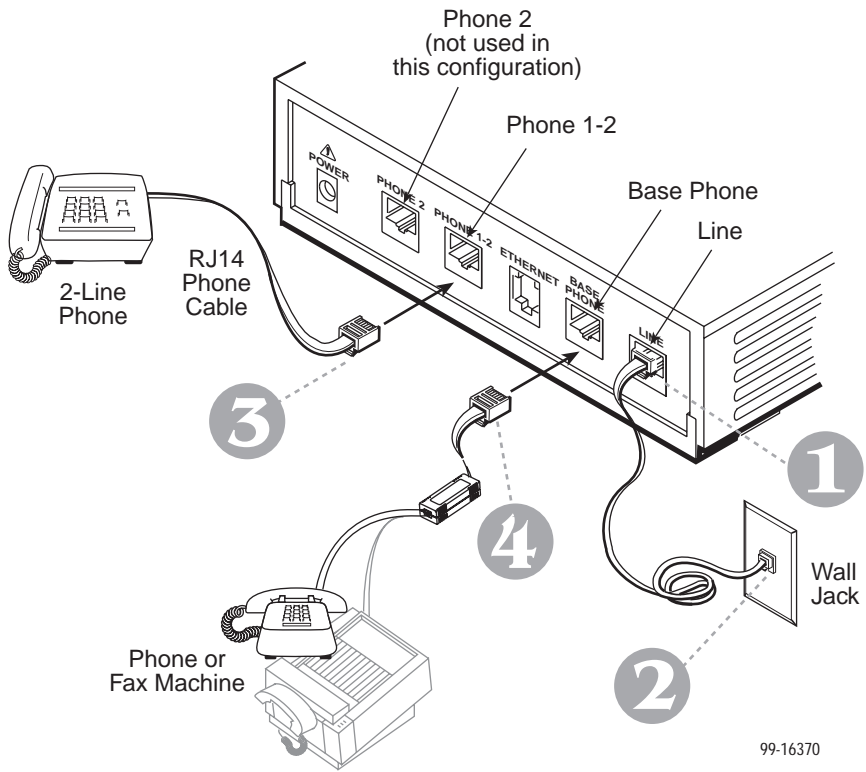
- ❹ Connect your existing phone, fax machine, or modem to a phone filter and connect the phone filter to the BASE PHONE jack on the SuperLine IAD rear panel.

NOTE:

If you lose power to your SuperLine IAD, the device connected to the BASE PHONE jack will still be operational.

For optimal performance, do not use the BASE PHONE jack to connect a modem.

To complete your SuperLine IAD installation, refer to *Connecting Phone Filters to Your Existing Phones* on page 19, and *Applying Power to the Unit* on page 20.



Connecting a 2-Line Phone (with Two Additional Lines)

CAUTION:

Do not attempt to connect phone cables from the PHONE 1-2 and PHONE 2 jacks to phones located outdoors. Keep all wiring connected to the PHONE 1-2 and PHONE 2 jacks within your home or office.

Connecting a Modem to Your SuperLine IAD

Hardware Required (Supplied)

- A 6-foot RJ11 phone cable.

► Procedure

Use the following procedure and supporting figure to connect a modem to your SuperLine IAD.

NOTE:

For optimal performance, do not use the BASE PHONE jack to connect a modem.

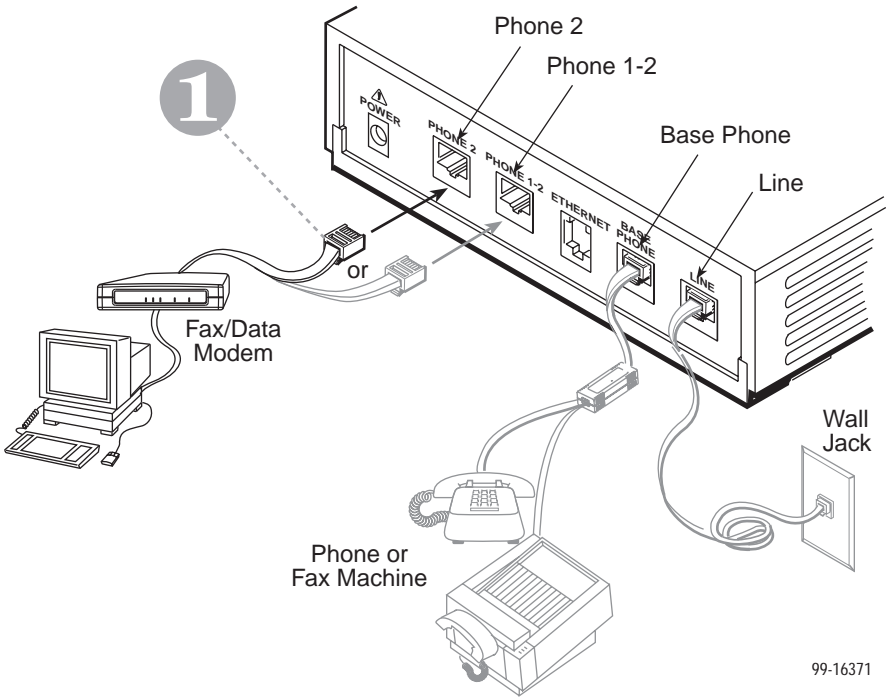
Modem Connection:

- ❶ Connect the output of your modem to the PHONE 1-2 or PHONE 2 jack on the SuperLine IAD rear panel using the supplied cable.
 - Use only the PHONE 1-2 jack if you have one additional phone line.
 - Use either the PHONE 1-2 or PHONE 2 jack if you have two additional phone lines. You can connect an additional phone, fax machine, or another modem to the unused jack (PHONE 1-2 or PHONE 2).

NOTE:

If you use the PHONE 2 jack, do not use a 4-wire phone cable to connect phones, fax machines, or modems to the PHONE 1-2 jack. A 4-wire phone cable connected to the PHONE 1-2 jack may cause interference on phones, fax machines, or modems connected to the PHONE 2 jack. Use the supplied cable.

To complete your SuperLine IAD installation, refer to *Connecting Phone Filters to Your Existing Phones* on page 19, and *Applying Power to the Unit* on page 20.



Connecting a Modem

Optional Configuration

If your home or office phone jacks are wired internally with 4 wires (Pins 2, 3, 4, and 5), you may be able to connect phones in other rooms to your SuperLine IAD by using optional hardware purchased from your local electronics or phone store. If you are unsure if your home or office is wired with 4 wires, contact an electrician or your service provider.

Hardware Required (Supplied)

- 6-foot RJ11 phone cable.

Hardware Required (Not Supplied)

- “T” type connectors. Refer to *“T” Type Connector* on page 25 for “T” type connector specifications.
- RJ11 phone cables to connect the SuperLine IAD to the “T” type connector and your existing phone to the SuperLine IAD.

► Procedure

Use the following procedure and supporting figure to install your SuperLine IAD with multiple phones, fax machines, or modems connected in other rooms.

In the Same Room as your SuperLine IAD:

- ❶ Plug a “T” type connector into the wall jack of the room where the SuperLine IAD is located.
- ❷ Plug one end of your phone cable into the LINE jack on the SuperLine IAD rear panel.
- ❸ Plug the other end of your phone cable into Line 1 of the “T” type connector.
- ❹ Plug the supplied phone cable into Line 2 of the “T” type connector.
- ❺ Plug the other end of the supplied phone cable into the PHONE 1-2 jack on the SuperLine IAD rear panel.

NOTE:

Do not use a 4-wire phone cable to connect phones, fax machines, or modems to the PHONE 1-2 jack. A 4-wire phone cable connected to the PHONE 1-2 jack may cause interference on devices connected to the PHONE 2 jack.

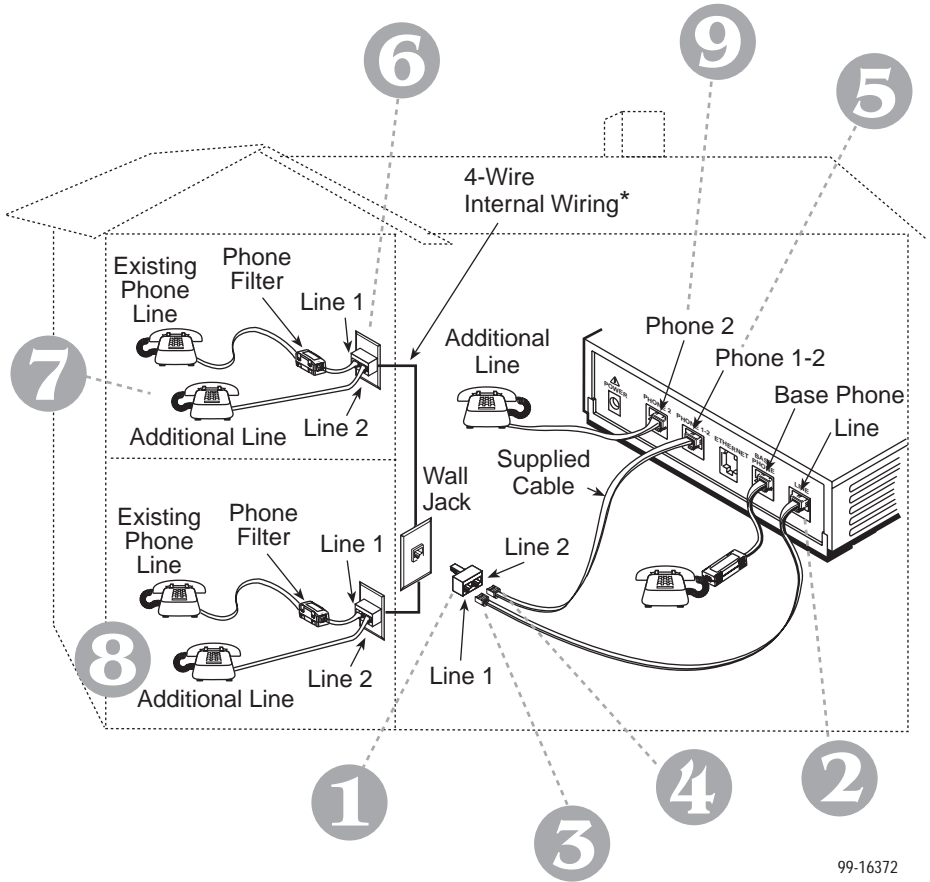
In Another Room:

- ❻ Plug a second “T” type connector into the wall jack of another room.
- ❼ Connect the additional phone to Line 2 of the “T” type connector. You can connect a phone to your existing phone line using Line 1 of the “T” type connector and a phone filter as shown.
- ❽ Repeat Steps 6 and 7 for any additional rooms you want to connect.

Third Phone, Fax or Modem:

- ❾ If applicable, connect a third phone, fax machine, or modem into the PHONE 2 jack on the SuperLine IAD rear panel using one of your existing cables.

To complete your SuperLine IAD installation, refer to *Connecting Phone Filters to Your Existing Phones* on page 19, and *Applying Power to the Unit* on page 20.



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* Not all homes or offices are wired internally with 4 wires. If you are unsure of your internal home or office wiring, contact your service provider or an electrician.

Optional Configuration

CAUTION:

Do not attempt to connect phone cables from the PHONE 1-2 and PHONE 2 jacks to phones located outdoors. Keep all wiring connected to the PHONE 1-2 and PHONE 2 jacks within your home or office.

High-Speed Data Service (Not Available in All Areas)

The SuperLine IAD allows you to connect to a PC network interface card (NIC) or Hub for high-speed Internet access. Contact your service provider to determine if these services are available in your area.

Hardware Required (Not Supplied)

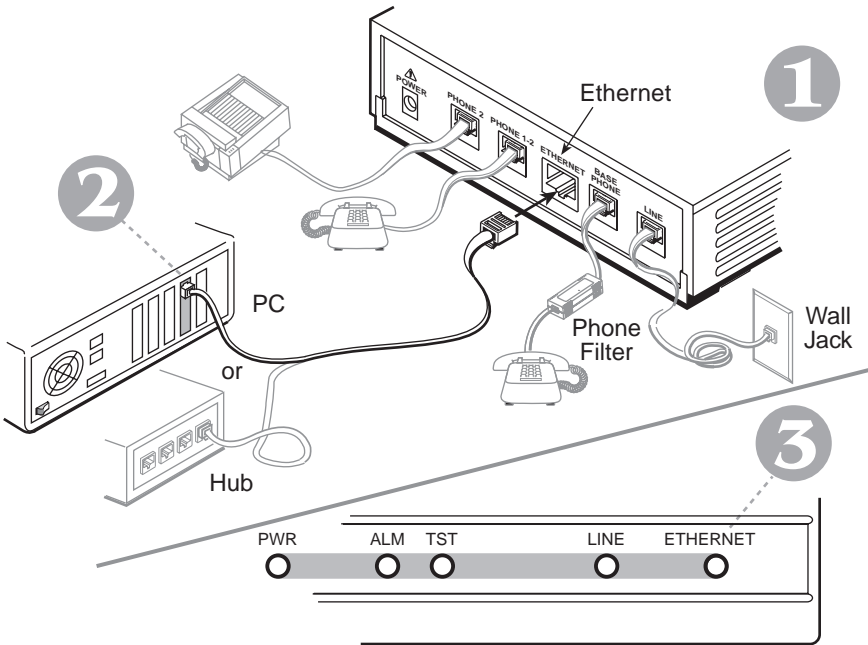
- Straight-through or crossover Ethernet interface cable. Refer to *Ethernet Cable* on page 24 for Ethernet cable pin configurations.

► Procedure

Use the following procedure to connect your SuperLine IAD to a PC or Hub.

Ethernet Connection:

- 1 Plug one end of the cable into the ETHERNET jack on the SuperLine IAD rear panel.
 - Use an 8-pin Ethernet crossover cable to connect your PC.
 - Use an 8-pin straight-through cable to connect to a Hub.
- 2 Plug the other end into your PC network interface card (NIC) or Hub.



99-16373

- 3 Apply power to the unit (refer to *Applying Power to the Unit* on page 20). Verify the ETHERNET indicator on the SuperLine IAD front panel is lit.

NOTE:

Your PC must be on in order for the ETHERNET indicator to light.

Connecting Phone Filters to Your Existing Phones

► Procedure

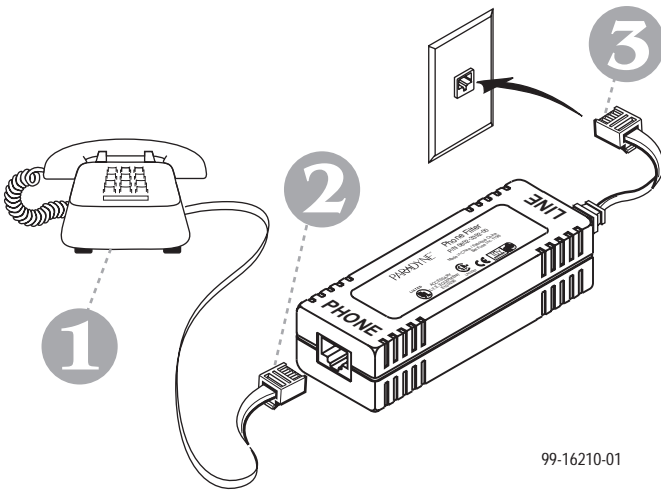
After you have installed your SuperLine IAD, each phone in your home or office that is connected to the same line as the SuperLine IAD must be connected through a phone filter to minimize background noise during telephone conversations. Use the following procedure to install phone filters on your existing phones.

NOTE:

You may need to obtain additional phone filters from your service provider.

- ❶ Disconnect the phone cord of your existing phone from the wall jack.
- ❷ Plug the phone cord into the PHONE jack on the phone filter.
- ❸ Plug the phone filter into the wall jack.

Repeat Steps 1–3 for each phone in your home or office that is not connected through your SuperLine IAD.



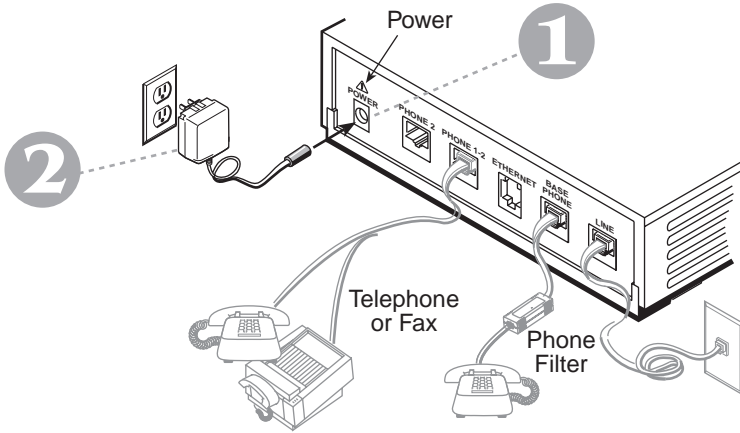
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Applying Power to the Unit

► Procedure

After you have installed your SuperLine IAD, use the following procedure to apply power to the SuperLine IAD.

- 1 Insert the power cord's cylindrical plug into the jack labeled POWER on the SuperLine IAD rear panel.
- 2 Plug the transformer into an ac power outlet.



99-16374

After power is applied, the SuperLine IAD performs a power-on self-test. During the power-on self-test, all front panel indicators light for one second and then turn off. Only the PWR, LINE, and ETHERNET (if applicable) indicators remain lit. If any other indicators remain lit, refer to *Troubleshooting Your SuperLine IAD* on page 21. Refer to *Front Panel Indicators* on page 5 for more information on SuperLine IAD front panel indicators.

Congratulations. Your SuperLine IAD installation is now complete.

Troubleshooting Your SuperLine IAD

Symptom	Action
All indicators remain ON.	The SuperLine IAD is not functional. If the indicators remain ON after five minutes, unplug the power cord and plug it back in. If the problem continues, contact your service provider.
ALM indicator remains ON. (PWR is ON and ETHERNET may be ON.)	The power-on self-test has failed. Unplug the power cord and plug it back in. If the problem continues, contact your service provider. Also see the entry for <i>ALM and TST indicators remain ON</i> .
TST indicator blinks or remains ON. (PWR is ON and LINE and ETHERNET may be ON.)	This indicator may be on in conjunction with the ALM indicator. Also see the entry for <i>ALM and TST indicators remain ON</i> . If the TST indicator blinks or remains ON and the ALM indicator is OFF and additional line service is not available, unplug the power cord and plug it back in. If the problem continues, contact your service provider.
ALM and TST indicators remain ON. (PWR will be ON and LINE and ETHERNET may be ON.)	Your service provider has initiated a test or upgrade of your SuperLine IAD. This operation may be performed periodically to ensure your SuperLine IAD operates to its full potential. The condition normally lasts only a few minutes. During this time your existing (BASE) phone continues to operate, but your additional lines are not available. If this condition persists for more than 10 minutes, unplug the power cord and plug it back in. If the problem continues, contact your service provider.
ETHERNET indicator is OFF. (PWR is ON and LINE may be ON.)	Verify that the Ethernet 10BaseT cable is securely installed at both ends, and at least one PC is connected and powered on.
	Verify that the correct straight-through or crossover cable is installed. Refer to <i>High-Speed Data Service</i> on page 18.
LINE indicator is OFF. (PWR is ON.)	Verify that the phone cable connected to the LINE jack is securely installed at both ends. If the problem continues, contact your service provider.
	Verify that the additional line has a dial tone. If there is no dial tone, contact your service provider.
LINE indicator is ON and there is no dial tone on your additional line phones. (PWR is ON and ETHERNET may be ON.)	The link has been established but there is no data transmission. If the problem persists, contact your service provider.

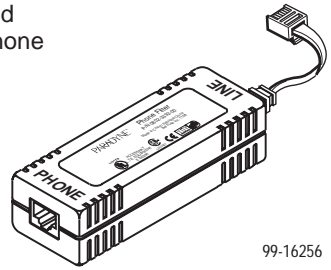
Symptom	Action
PWR indicator is OFF.	<p>Check that the power cord is securely installed on both ends.</p> <p>If no other indicators are on, the power supply may be defective. Plug the SuperLine IAD into another outlet. If the problem persists, contact your service provider.</p> <p>If other indicators are on, unplug the power cord and plug it back in; watch all indicators during the power-on self-test to determine if the PWR indicator is operational.</p>
There is no dial tone at one or all of the three PHONE jacks.	Check the connections of the SuperLine IAD to the wall jack, and your devices to the SuperLine IAD. If the problem persists, contact your service provider.
The existing (BASE) phone has dial tone but does not ring.	Verify the total Ringer Equivalency Number (REN) of all of the devices connected to your existing phone line and BASE PHONE jack does not exceed 3. REN is normally specified on a label on the phone, fax machine, or modem.
You detect distortion on the existing (BASE) phone.	Verify that you have connected the phone to one of the supplied phone filters.
The phone connected to the PHONE 1-2 or PHONE 2 jack does not ring but you can place calls.	Verify the total Ringer Equivalency Number (REN) of all of the devices connected to your PHONE 1-2 or PHONE 2 jack does not exceed 3. REN is normally specified on a label on the phone, fax machine, or modem.
The PHONE 2 jack has no dial tone.	Verify that your service provider has supplied you with two additional lines.
You detect distortion on the phone connected to the PHONE 1-2 or PHONE 2 jack, or the modem or fax machine connected to the PHONE 1-2 or PHONE 2 jack does not work properly.	Verify that you are not using a 4-wire phone cable for the device connected to the PHONE 1-2 jack. Use only the supplied 6-foot cable (Part No. 035-0388-0631) to connect a device to the PHONE 1-2 jack (unless you are connecting a 2-line phone as described on page 12).
Fast busy signal on one of the additional lines.	There is insufficient bandwidth to support the line. Contact your service provider.
ETHERNET throughput varies when additional lines are in use.	No action required. To ensure toll-quality voice lines, the ETHERNET port gives up bandwidth to the additional lines when they are active.
Throughput is reduced when two SuperLine IADs are connected to the same wall jack.	Connect only one SuperLine IAD to each phone line.

Technical Information

This section contains reference information.

Phone Filter

Phone filters are required to minimize audible background noise that occurs with your existing telephones during phone conversations on phones not connected through your SuperLine IAD.



99-16256

RJ11 or RJ14C Phone Cables

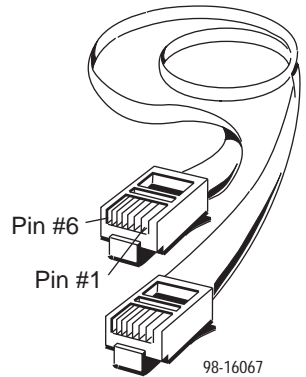
- All standard phones, fax machines, and modems that connect to your SuperLine IAD use a 6-pin, non-keyed modular plug (RJ11 or RJ14C).

RJ11 6-Pin Connector

Pin #	Function
1	Not used
2	Not used
3	Ring
4	Tip
5	Not used
6	Not used

RJ14C 6-Pin Connector

Pin #	Function
1	Not used
2	Ring (Line 2)
3	Ring (Line 1)
4	Tip (Line 1)
5	Tip (Line 2)
6	Not used



98-16067

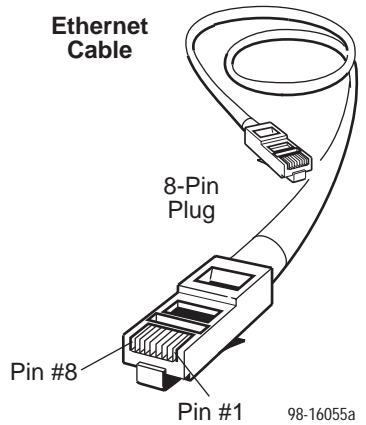
Ethernet Cable

The Ethernet interface connector uses an 8-pin, non-keyed modular plug.

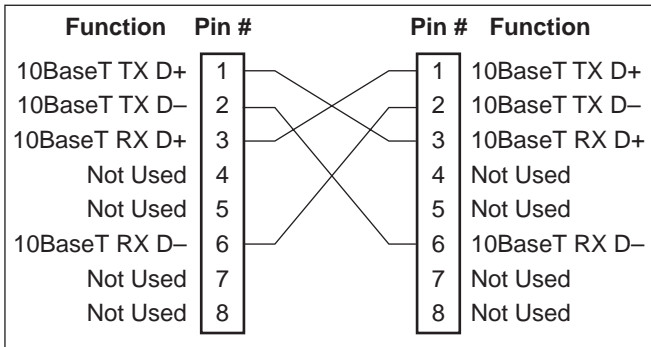
- Use the straight-through connection to connect to an Ethernet Hub. 24 AWG, Cat 5 cable is recommended.

8-Pin Straight-Through Connection

Pin #	Function
1	10BaseT TX D+
2	10BaseT TX D-
3	10BaseT RX D+
4 & 5	Not used
6	10BaseT RX D-
7 & 8	Not used



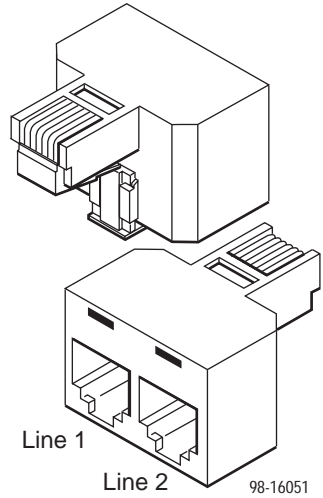
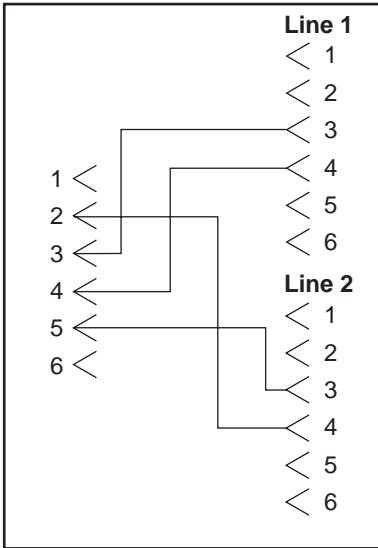
- Use an Ethernet crossover cable to connect your SuperLine IAD directly to a PC with an Ethernet network interface card. 24 AWG, Cat 5 cable is recommended.



98-16056

“T” Type Connector

The “T” connector allows additional phones to be connected to your SuperLine IAD from other rooms. If your home or office internal phone wiring uses 4 wires connected to Pins 2, 3, 4, and 5, the “T” connector crosses the normally unused Pins 2 and 5 to Pins 3 and 4 on Line 2 of the SuperLine IAD. Connecting your SuperLine IAD to Line 2 on the “T” connector creates an electrical connection to any room with a wall jack by using a second “T” connector and connecting the phone in that room to Line 2 of the second “T” connector.



Technical Specifications

Item	Specification*
Height x Width x Depth	2.2" x 7.6" x 12.1" (5.6 cm x 19.3 cm x 30.7 cm)
Weight	2 lb. 2 oz.
Power Class 2 Transformer normal service input voltage range	Input: 120 Vac ($\pm 10\%$), 60 Hz Output: 18 Vdc nominal at 0.8A
Approvals FCC Part 15 Safety Certifications	Class B digital device Refer to equipment's label for approvals on product.
Physical Environment Operating temperature Storage temperature Relative humidity Shock and vibration	32° F to 104° F (0° C to 40° C) -4° F to 158° F (-20° C to 70° C) 5% to 95% (noncondensing) Withstands normal shipping and handling
Heat Dissipation	22.2 Btu/hr. (max.) at nominal input voltage
Interface Connectors Line and Phone Interfaces Ethernet Type II Frame	RJ11/RJ14 6-pin 10BaseT 8-pin
REN Support	Provides adequate ringing signals for a total REN of 3 on each SuperLine port (PHONE 1-2 or PHONE 2). The BASE phone REN load is labeled on the equipment. See page 28.
* Technical Specifications subject to change without notification.	

Technical Support

For assistance installing or configuring your SuperLine IAD, contact your service provider.

Trademarks and Patents

All products and services mentioned herein are the trademarks, service marks, registered trademarks or registered service marks of their respective owners.

The SuperLine IAD is protected by U.S. Patents: 4,669,090, 4,744,092, 5,291,521, and 5,805,669. Other U.S. and foreign patents pending.

⚠ Important Safety Instructions

1. Read and follow all warning notices and instructions marked on the product or included in the manual.
2. Slots and openings in the housing are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these slots and openings must not be blocked or covered.
3. Do not allow anything to rest on the power cord and do not locate the product where people will walk on the power cord.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous high voltage points or other risks. Refer all servicing to qualified service personnel.
5. General purpose cables are used with this product for connection to the network. Special cables, which may be required by the regulatory inspection authority for the installation site, are the responsibility of the customer. Use a UL-listed, CSA-certified, minimum #24 AWG line cord for connection to the network.
6. In addition, since the equipment is to be used with telecommunications circuits, take the following precautions:
 - Never install telephone wiring during a lightning storm.
 - Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
 - Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
 - Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
 - Do not use the telephone to report a gas leak in the vicinity of the leak.

Declaration of Conformity

This Declaration of Conformity is made by Paradyne pursuant to Parts 2 and 15 of the Federal Communications Commission's Rules. This compliance information statement pertains to the following products:

Trade Name: SuperLine™ IAD
Model Number: 6512

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The name and address of the responsible party is given below:

Paradyne Corporation
8345 126th Ave. N.
P.O. Box 2826
Largo, FL 33779-2826

The authority to operate this equipment is conditioned by the requirement that no modifications will be made to the equipment unless the changes or modifications are expressly approved by Paradyne Corporation.

Canada

WARNING:

To Users of Digital Apparatus in Canada:

This Class B digital apparatus meets all requirements of the Canadian interference-causing equipment regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du règlement sur le matériel brouilleur du Canada.

Notice to Users of the Canadian Telephone Network

The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION:

Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

If your equipment is in need of repair, contact your service provider.



6512-A2-GN11-00