

IBM Systems - iSeries Hardware installation and use Cabling instructions

Version 5 Release 4



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Version 5 Release 4

Note

Before using this information and the product it supports, read the information in "Notices," on page 115.

Fifth Edition (February 2006)

This edition applies to version 5, release 4, modification 0 of IBM i5/OS (product number 5722-SS1) and to all subsequent releases and modifications until otherwise indicated in new editions. This version does not run on all reduced instruction set computer (RISC) models nor does it run on CISC models.

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Cable your server

This topic provides you with guidance to properly cable your system.

Printable PDF

Use this to view and print a PDF of this information.

To view or download the PDF version of this document, select Cabling your server (about 2332 KB).

Saving PDF files

To save a PDF on your workstation for viewing or printing:

- 1. Right-click the PDF in your browser (right-click the link above).
- | 2. Click the option that saves the PDF locally.
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- I You need Adobe Reader installed on your system to view or print these PDFs. You can download a free
- copy from the Adobe Web site (www.adobe.com/products/acrobat/readstep.html)

Select the model 270 cabling instructions

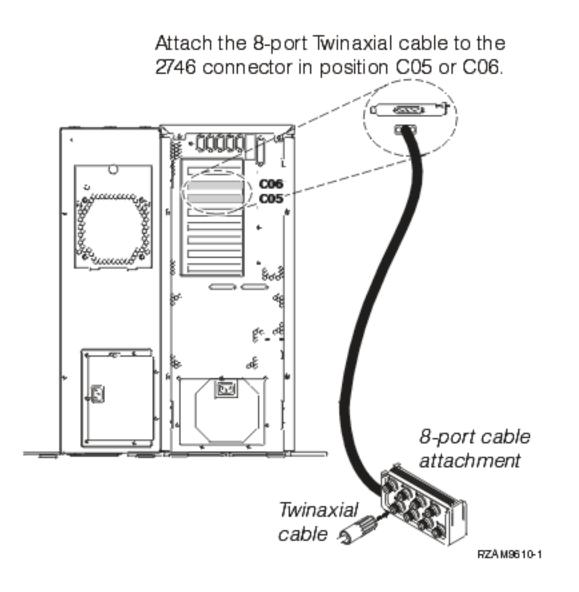
Select the cabling instructions that best match the server you are setting up.

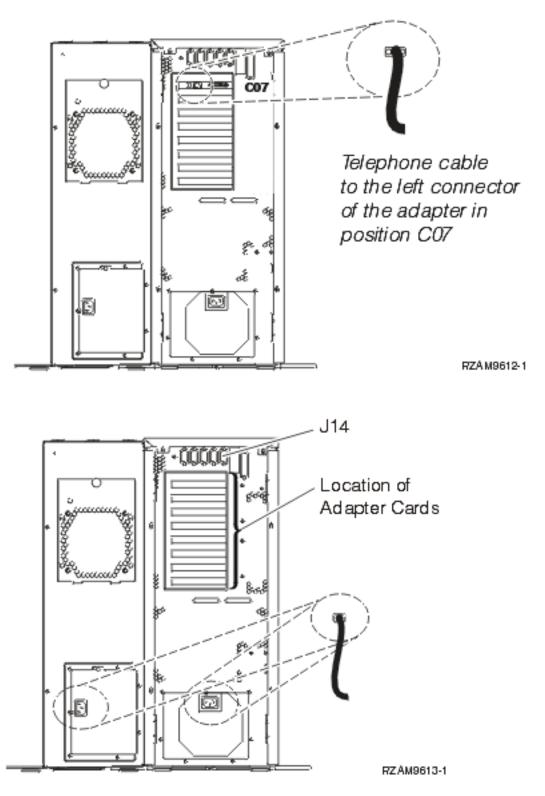
Cable a model 270 and twinaxial console with an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a 270, 800, or 810 in a rack topic.





Connect the twinaxial cable

These instructions help you connect the twinaxial cable.

1. If installed, lift the back cover and remove it from the server.

- 2. Look at card positions C05 and C06 on the back of the server. Locate the position that contains card 2746. This is your twinaxial adapter card. If both positions contain card 2746, then select the card in position C06.
- **3**. Locate the 8-port twinaxial attachment cable (PN 21F5093). Attach the cable to the connector on the 2746 twinaxial adapter card.
- 4. Connect a twinaxial cable from the workstation that you will be using as the system console to port 0 on the 8-port twinaxial attachment cable.

Note: The workstation address of your console must be set to 0. To set the address, refer to the reference material that was shipped with your workstation.

5. Continue with the next task.

Connect the electronic customer support cable

Use these instructions to connect the electronic customer support cable.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes
 - 1. Connect a telephone cable to the left connector of the 2771 or 2793 adapter located in position C07.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the $IBM^{\textcircled{B}}$ eServerTM Technical Support Advantage information included with your server, or go to the Support for

iSeries^{$^{\text{TM}}$} family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Cable the expansion unit

Use these instructions to cable the expansion unit.

To set up your expansion unit, select the appropriate information from the following list.

- Setting Up Your 5075 Expansion Unit 1
- Setting Up Your 0588, 0595, 0694, 5088, 5094, 5095 Expansion Unit 1
- **Note:** Do not plug the expansion-unit power cord into the power outlet as indicated in the *Setting Up your 5075 Expansion Unit* document. You will plug the expansion-unit power cord into the power outlet later in this procedure.

After you have set up the expansion unit and replaced the back cover, continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

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• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the power cord of the uninterruptible-power-supply into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem/powerware.com/ibm-ups/9910solutions.html 🐳 .

Continue with the next task.

Connect external cables

To connect external cables, follow these instructions.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 1. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter

Table 1. Cables and adapter cards (continued)

Cables and connectors	and connectors Adapter card type numbers Adapter cards (located on the back of the	
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865	5	
6339098		
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter

Table 1. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Part number 45H2433	2891/2892	Netfinity [®] Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
0		
	4810/9710	Integrated xSeries [®] server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers		
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit control	lers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography	I	
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers	1	
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters	1	
	2886	Optical Bus Adapter

Table 1. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- 3. Continue with the next task.

Turn on your server

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.
- **3**. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Work with the control panel topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server.

You have cabled your server.

- 6. Continue with the next section.
- **Note:** If you plan to install any Linux[®] specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) · You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

Use these instructions to set up your server.

If you have a PC connected to the LAN, you can use EZ-Setup on the *iSeries Setup and Operations* CD-ROM to complete your server setup.

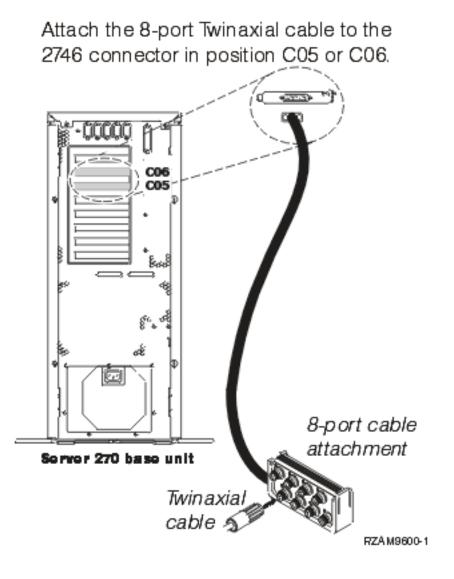
If you do not have a PC connected to the LAN, go to Setting Up Your Twinaxial System 💖 to continue with your server setup.

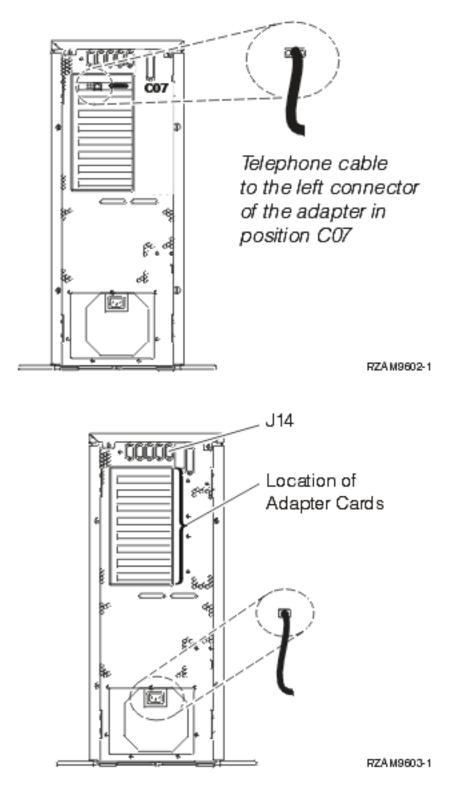
Cable a model 270 and twinaxial console without an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a 270, 800, or 810 in a rack topic.





Connect the twinaxial cable

These instructions help you connect the twinaxial cable.

- 1. If installed, lift the back cover and remove it from the server.
- 2. Look at card positions C05 and C06 on the back of the server. Locate the position that contains card 2746. This is your twinaxial adapter card. If both positions contain card 2746, then select the card in position C06.

- **3**. Locate the 8-port twinaxial attachment cable (PN 21F5093). Attach the cable to the connector on the 2746 twinaxial adapter card.
- 4. Connect a twinaxial cable from the workstation that you will be using as the system console to port 0 on the 8-port twinaxial attachment cable.

Note: The workstation address of your console must be set to 0. To set the address, refer to the reference material that was shipped with your workstation.

5. Continue with the next task.

Connect the electronic customer support cable

Use these instructions to connect the electronic customer support cable.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes
 - 1. Connect a telephone cable to the left connector of the 2771 or 2793 adapter located in position C07.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support Advantage information included with your server, or go to the Support for iSeries family

Web site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server.

Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the power cord of the uninterruptible-power-supply into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem/powerware.com/ibm-ups/9910solutions.html 🔧 .

Continue with the next task.

Connect external cables

To connect external cables, follow these instructions.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 2. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>		
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865		
6339098		

Table 2.	Cables	and	adapter	cards	(continued)
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2805/2806 PCI Quad Modem Input/Output Adapter 6312 PCI Quad Digital Trunk Adapter 6312 PCI Quad Digital Trunk Adapter Filternet 2838/2849 PCI 100/10 Mbps Ethernet Input/Output Adapter 5700 PCI 1 Gbps Ethernet Input/Output Adapter 5701 PCI 1 Gbps Ethernet UTP Input/Output Adapter 5706 PCI 1 Gbps Ethernet TX Input/Output Adapter 5706 PCI 1 Gbps Ethernet TX Input/Output Adapter 5707 PCI 1 Gbps Ethernet SX Input/Output Adapter 5718 PCI 10 Gbps Ethernet Input/Output Adapter 5718 PCI 10 Gbps Ethernet Input/Output Adapter Server cards 2891/2892 Part number 45H2433 2891/2892	r
Ethernet RJ45 Ethernet 2838/2849 PCI 100/10 Mbps Ethernet Input/Output Adapter 200 5700 PCI 1 Gbps Ethernet Input/Output Adapter 2701 PCI 1 Gbps Ethernet UTP Input/Output Adapter 2838/2849 5701 PCI 1 Gbps Ethernet UTP Input/Output Adapter 2837 5706 PCI 1 Gbps Ethernet TX Input/Output Adapter 2837 5707 PCI 10 Gbps Ethernet SX Input/Output Adapter 2837 5718 PCI 10 Gbps Ethernet Input/Output Adapter 2891/2892 Netfinity Server Card 4H8677 connects to cable	r
RJ45 Ethernet 2838/2849 PCI 100/10 Mbps Ethernet Input/Output Adapter \$700 PCI 1 Gbps Ethernet Input/Output Adapter \$701 PCI 1 Gbps Ethernet UTP Input/Output Adapter \$706 PCI 1 Gbps Ethernet TX Input/Output Adapter \$707 PCI 1 Gbps Ethernet SX Input/Output Adapter \$707 PCI 1 Gbps Ethernet SX Input/Output Adapter \$707 PCI 1 Gbps Ethernet SX Input/Output Adapter \$708 PCI 10 Gbps Ethernet Input/Output Adapter \$718 PCI 10 Gbps Ethernet Input/Output Adapter \$719 PCI 10 Gbps Ethernet Input/Output Adapter \$710 PCI 10 Gbps Ethernet Input/Output Adapter \$710 PCI 10 Gbps Ethernet Input/Output Adapter \$710 PCI 10 Gbps Ethernet Input/	r
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5701 PCI 1 Gbps Ethernet UTP Input/Output Adapter 5706 PCI 1 Gbps Ethernet TX Input/Output Adapter 5707 PCI 1 Gbps Ethernet SX Input/Output Adapter 5707 PCI 1 Gbps Ethernet SX Input/Output Adapter 5718 PCI 10 Gbps Ethernet Input/Output Adapter Server cards 2891/2892 Part number 45H2433 2891/2892 Vetfinity Server Card	
Image: State of the state	
Image: Server cards2891/2892Netfinity Server Card44H8677 connects to cableImage: Server card	
Server cards Part number 45H2433 44H8677 connects to cable	
Server cards Part number 45H2433 44H8677 connects to cable	
Part number 45H2433 2891/2892 Netfinity Server Card	
Part number 45H2433 44H8677 connects to cable	
~ 11 0 4 4 6 0 1 1 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	-1L
i 1	
Video extension cable, 44H8676	
4810/9710 Integrated xSeries server card	
4821/9712 Integrated xSeries server card	
RAID disk unit controllers	
2757 PCI Ultra RAID Disk Unit Controller	

Table 2. Cables and adapter cards (continued)

Cables and connectorsAdapter card type numbersAdapter cards (located on		Adapter cards (located on the back of the server)
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit co	ntrollers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers	j	
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters		
	2886	Optical Bus Adapter
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- 3. Continue with the next task.

Turn on your server

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.
- **3**. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Work with the control panel topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server.

You have cabled your server.

- 6. Continue with the next section.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) · You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

Use these instructions to set up your server.

If you have a PC connected to the LAN, you can use EZ-Setup on the *iSeries Setup and Operations* CD-ROM to complete your server setup.

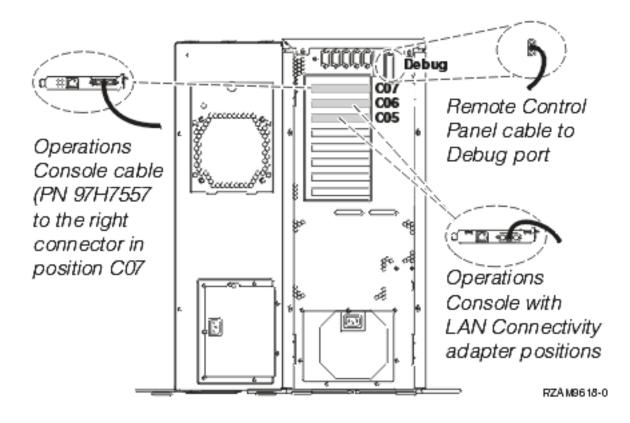
If you do not have a PC connected to the LAN, go to Setting Up Your Twinaxial System 💖 to continue with your server setup.

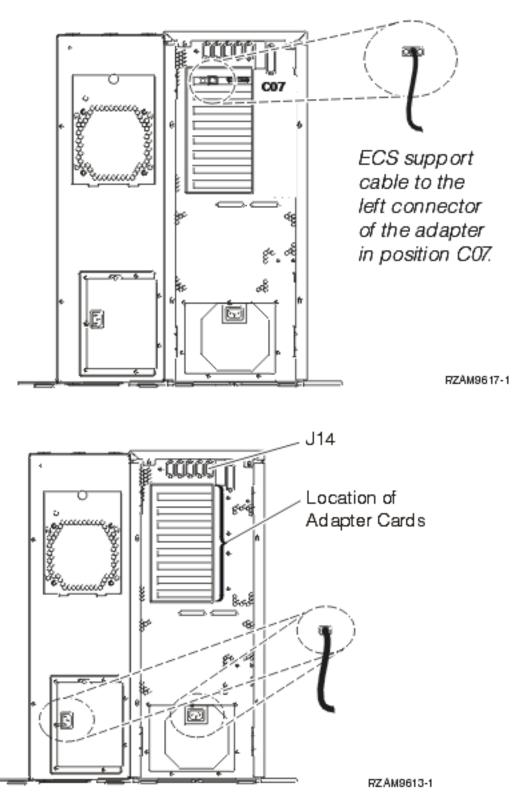
Cable a model 270 and Operations Console with an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a 270, 800, or 810 in a rack topic.





Connect the Operations Console cable

To connect the Operations Console cable, follow these instructions.

- 1. Power off and unplug the PC that is going to serve as the system console.
- 2. Locate the Operations Console cable (PN 97H7557). Connect the Operations Console cable to the right connector of the 2793 or 2794 adapter located in position C07 on the back of the server.

Are you using Operations Console with LAN connectivity?

- No
- a. Connect the other end of the Operations Console cable to the first or only communications (serial) port on the back of the PC being used as the console.
- b. Continue with the next task.
- Yes

If your primary choice is LAN connectivity, you do not need to connect the Operations Console cables to your PC at this time. If you develop a problem, you can connect these cables to the PC and set up Operations Console. See Operations Console.

- a. Connect a network cable from the PC that is going to serve as the system console to your local network. Connect a network cable from your local network to the adapter card in position C06 or C05.
- b. Continue with the next task.

Connect the electronic customer support cable

Use these instructions to connect the electronic customer support cable.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes
 - 1. Connect a telephone cable to the left connector of the 2771 or 2793 adapter located in position C07.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support Advantage information included with your server, or go to the Support for iSeries family

Web site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Cable the expansion unit

Use these instructions to cable the expansion unit.

To set up your expansion unit, select the appropriate information from the following list.

- Setting Up Your 5075 Expansion Unit 1
- Setting Up Your 0588, 0595, 0694, 5088, 5094, 5095 Expansion Unit 🤎
- **Note:** Do not plug the expansion-unit power cord into the power outlet as indicated in the *Setting Up your 5075 Expansion Unit* document. You will plug the expansion-unit power cord into the power outlet later in this procedure.

After you have set up the expansion unit and replaced the back cover, continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the power cord of the uninterruptible-power-supply into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem/powerware.com/ibm-ups/9910solutions.html 💨 .

Continue with the next task.

Connect external cables

To connect external cables, follow these instructions.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 3. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN	•	
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter

Table 3. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI token-ring	- ·	
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865		
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards	- 1	

Table 3. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
0		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers		
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit control	lers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography	1	
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers		
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters	1	1
	2886	Optical Bus Adapter

Table 3. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Turn on your server

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.
- **3**. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Work with the control panel topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server.

You have cabled your server.

- 6. Continue with the next section.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) · You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

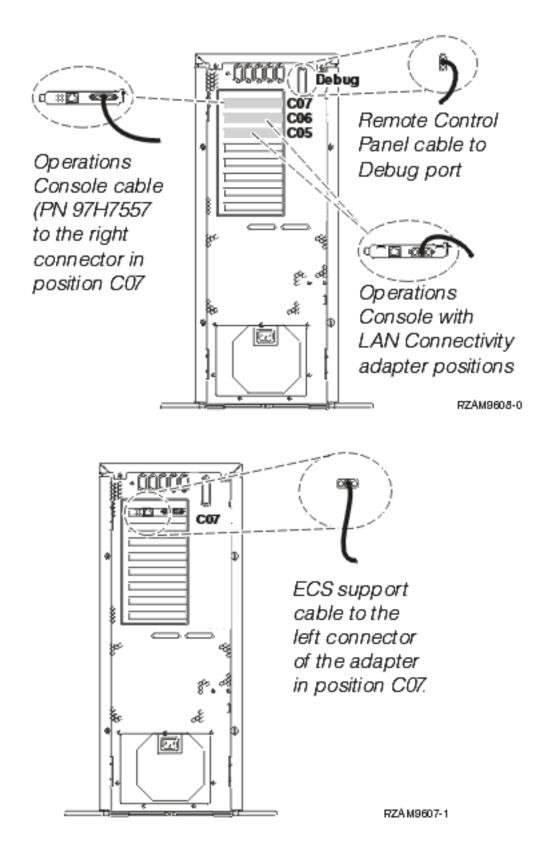
Return to EZ-Setup on the iSeries Setup and Operations CD-ROM and continue to set up your server.

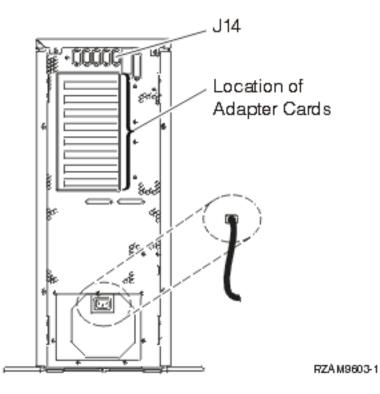
Cable a model 270 and Operations Console without an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a 270, 800, or 810 in a rack topic.





Connect the Operations Console cable

To connect the Operations Console cable, follow these instructions.

- 1. Power off and unplug the PC that is going to serve as the system console.
- 2. Locate the Operations Console cable (PN 97H7557). Connect the Operations Console cable to the right connector of the 2793 or 2794 adapter located in position C07 on the back of the server.

Are you using Operations Console with LAN connectivity?

- No
- a. Connect the other end of the Operations Console cable to the first or only communications (serial) port on the back of the PC being used as the console.
- b. Continue with the next task.
- Yes

If your primary choice is LAN connectivity, you do not need to connect the Operations Console cables to your PC at this time. If you develop a problem, you can connect these cables to the PC and set up Operations Console. See Operations Console.

- a. Connect a network cable from the PC that is going to serve as the system console to your local network. Connect a network cable from your local network to the adapter card in position C06 or C05.
- b. Continue with the next task.

Connect the electronic customer support cable

Use these instructions to connect the electronic customer support cable.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes
 - 1. Connect a telephone cable to the left connector of the 2771 or 2793 adapter located in position C07.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support Advantage information included with your server, or go to the Support for iSeries family

Web site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server.

Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the power cord of the uninterruptible-power-supply into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem/powerware.com/ibm-ups/9910solutions.html ******. Continue with the next task.

Connect external cables

To connect external cables, follow these instructions.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter

Table 4. Cables and adapter cards

Table 4. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
Integrated modem		
87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>		
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		
RJ45 Token-ring Filter P75G5958 or 75G2865	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
6339098		
	2805/2806	PCI Quad Modem Input/Output Adapter
	2003/2000	
Tell and the second sec	6312	PCI Quad Digital Trunk Adapter
Ethernet		

Table 4. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards	1	
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers	1	1 -
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit contro	llers	1

Table 4. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography	·	
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers	ŀ	
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters		
	2886	Optical Bus Adapter
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Turn on your server

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.
- **3**. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Work with the control panel topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server.

You have cabled your server.

- 6. Continue with the next section.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

Return to EZ-Setup on the iSeries Setup and Operations CD-ROM and continue to set up your server.

Select the cabling instructions for a model 800 or model 810

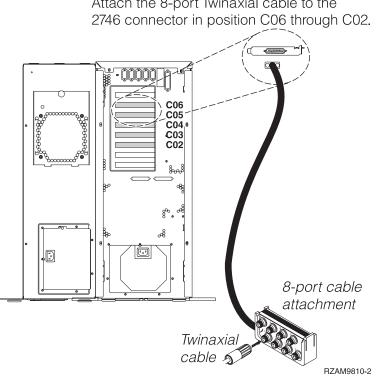
Select the cabling instructions that best match the server you are setting up.

Cable a model 800 or model 810 and twinaxial console with an expansion unit

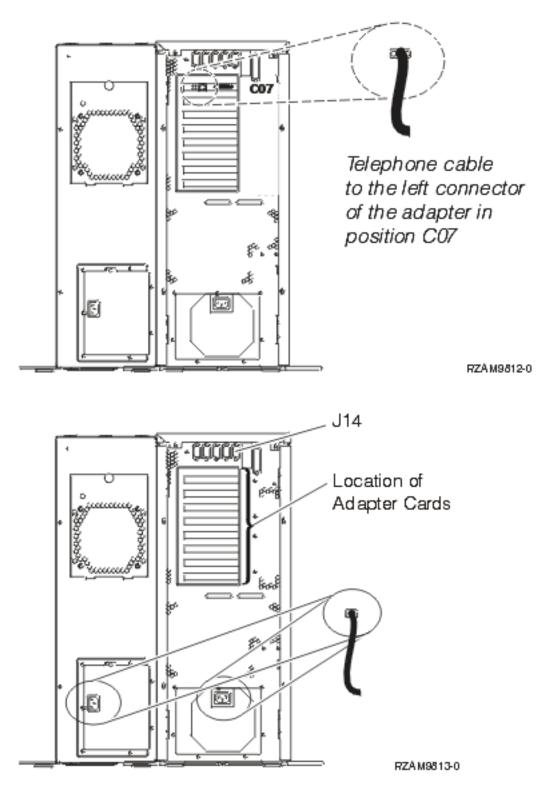
Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a 270, 800, or 810 in a rack topic.



Attach the 8-port Twinaxial cable to the



Connect the twinaxial cable

Use these instructions to connect the twinaxial cable.

1. Look at card positions C06 through C02 on the back of the server. Locate the position that contains card 2746. This is your twinaxial adapter card. If more than one position contains card 2746, then select the card in position C06.

- 2. Locate the 8-port twinaxial attachment cable (PN 21F5093). Attach the cable to the connector on the 2746 twinaxial adapter card.
- **3**. Connect a twinaxial cable from the workstation that you will be using as the system console to port 0 on the 8-port twinaxial attachment cable.

Note: The workstation address of your console must be set to 0. To set the address, refer to the reference material that was shipped with your workstation.

4. Continue with the next task.

Connect the electronic customer support cable

To connect the electronic customer support cable, follow these instructions.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes
 - 1. Connect a telephone cable to the left connector of the adapter located in position C07.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Cable the expansion unit

Use these instructions to cable the expansion unit.

- **Note:** Do not plug the expansion-unit power cord into the power outlet as directed by the following documents.
- Setting Up Your 0578, 5074, 5078, or 5079 Expansion Unit 1
- Setting Up Your 5075 Expansion Unit 100
- Setting Up Your 5065 or 5066 Expansion Unit VP
- Setting Up Your 0588, 0595, 0694, 5088, 5094, 5095 Expansion Unit 💖

After you have set up the expansion unit, continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the outlet and do not turn on your server. For

instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem/powerware.com/ibm-ups/9910solutions.html 🛷.

Continue with the next task.

Connect external cables

Follow these instructions to connect external cables.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 5. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN	I	
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial	•	
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		

Table 5. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G286	5	
6339098		
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter

Table 5. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
0		
Video extension cable, 44H8676		
0		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers		
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit control	lers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers		
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters	1	· · · · · · · · · · · · · · · · · · ·
	2886	Optical Bus Adapter

Table 5. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.
- **3**. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. If your server uses the twinaxial console, 01 BN V=F will appear on the control panel when the server is powered on. If your server uses Operations Console, 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.

You have cabled your server.

- 5. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) Vou can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

To set up your server, follow these instructions.

If you have a PC connected to the LAN, you can use EZ-Setup on the *iSeries Setup and Operations* CD-ROM to complete your server setup.

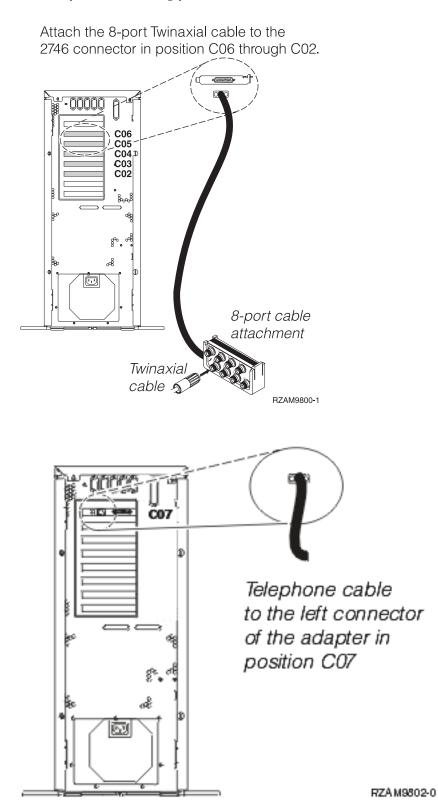
If you do not have a PC connected to the LAN, go to Setting Up Your Twinaxial System 💖 to continue with your server setup.

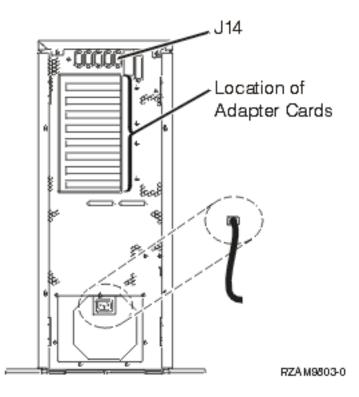
Cable a model 800 or model 810 and twinaxial console without an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a 270, 800, or 810 in a rack topic.





Connect the twinaxial cable

Use these instructions to connect the twinaxial cable.

- 1. Look at card positions C06 through C02 on the back of the server. Locate the position that contains card 2746. This is your twinaxial adapter card. If more than one position contains card 2746, then select the card in position C06.
- 2. Locate the 8-port twinaxial attachment cable (PN 21F5093). Attach the cable to the connector on the 2746 twinaxial adapter card.
- **3**. Connect a twinaxial cable from the workstation that you will be using as the system console to port 0 on the 8-port twinaxial attachment cable.

Note: The workstation address of your console must be set to 0. To set the address, refer to the reference material that was shipped with your workstation.

4. Continue with the next task.

Connect the electronic customer support cable

To connect the electronic customer support cable, follow these instructions.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes
 - 1. Connect a telephone cable to the left connector of the adapter located in position C07.

2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem/powerware.com/ibm-ups/9910solutions.html 🐝 .

Continue with the next task.

Connect external cables

Follow these instructions to connect external cables.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
PCI dual WAN		

Table 6. Cables and adapter cards

Table 6. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring	1	
RJ45 Token-ring Filter P75G5958 or 75G2865 6339098 () () () () () () () () () ()	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		

Table 6. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards		
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
(<u>'''''''''''''''''''''''''''''''''''''</u>	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers	1	
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card

Table 6. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers		
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters	L	
	2886	Optical Bus Adapter
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- 3. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.
- **3**. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. If your server uses the twinaxial console, 01 BN V=F will appear on the control panel when the server is powered on. If your server uses Operations Console, 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.

You have cabled your server.

- 5. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) 45. You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

To set up your server, follow these instructions.

If you have a PC connected to the LAN, you can use EZ-Setup on the *iSeries Setup and Operations* CD-ROM to complete your server setup.

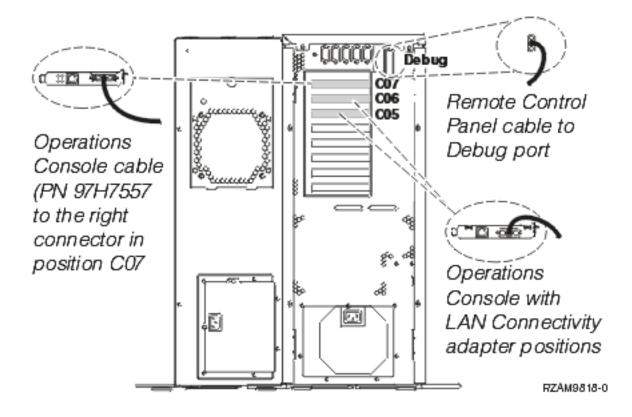
If you do not have a PC connected to the LAN, go to Setting Up Your Twinaxial System 💖 to continue with your server setup.

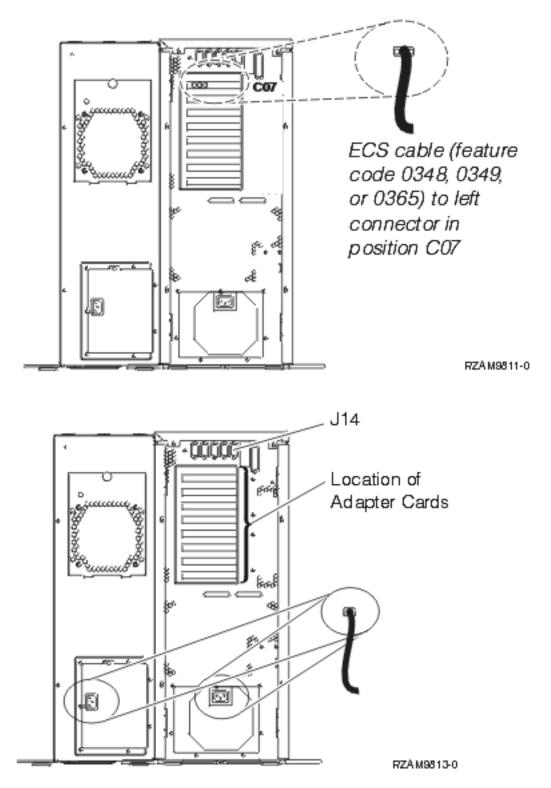
Cable a model 800 or model 810 with an expansion unit and Operations Console

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a 270, 800, or 810 in a rack topic.





Connect the Operations Console cable

To connect the Operations Console cable, follow these instructions.

- 1. Power off and unplug the PC that is going to serve as the system console.
- Locate the Operations Console cable (PN 97H7557). Connect the Operations Console cable to the right connector of the 2793 or 2794 adapter located in position C07 on the back of the server. Are you using Operations Console with LAN connectivity?

- No
- a. Connect the other end of the Operations Console cable to the first or only communications (serial) port on the back of the PC being used as the console.
- b. Continue with the next task.
- Yes

If your primary choice is LAN connectivity, you do not need to connect the Operations Console cables to your PC at this time. If you develop a problem, you can connect these cables to the PC and set up Operations Console. See Operations Console.

- a. Connect a network cable from the PC that is going to serve as the system console to your local network. Connect a network cable from your local network to the adapter card in position C06 or C05.
- b. Continue with the next task.

Connect the electronic customer support cable

To connect the electronic customer support cable, follow these instructions.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes
 - 1. Connect a telephone cable to the left connector of the adapter located in position C07.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Cable the expansion unit

Use these instructions to cable the expansion unit.

Note: Do not plug the expansion-unit power cord into the power outlet as directed by the following documents.

- Setting Up Your 0578, 5074, 5078, or 5079 Expansion Unit 1
- Setting Up Your 5075 Expansion Unit VP
- Setting Up Your 5065 or 5066 Expansion Unit 100
- Setting Up Your 0588, 0595, 0694, 5088, 5094, 5095 Expansion Unit 1

After you have set up the expansion unit, continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server.

Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem/powerware.com/ibm-ups/9910solutions.html 🐳 .

Continue with the next task.

Connect external cables

Follow these instructions to connect external cables.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 7. Cables and adapter cards

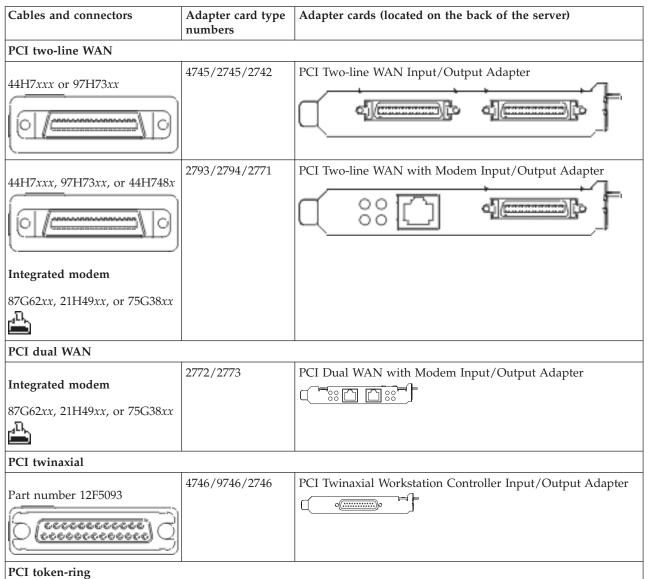


Table 7. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865		
6339098		
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards		1

Table 7. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
0		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers		
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit control	lers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography	1	
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers	1	
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters		
2 no numprero	2886	Optical Bus Adapter

Table 7. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.
- **3**. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. If your server uses the twinaxial console, 01 BN V=F will appear on the control panel when the server is powered on. If your server uses Operations Console, 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.

You have cabled your server.

- 5. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) · You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

To set up your server, follow these instructions.

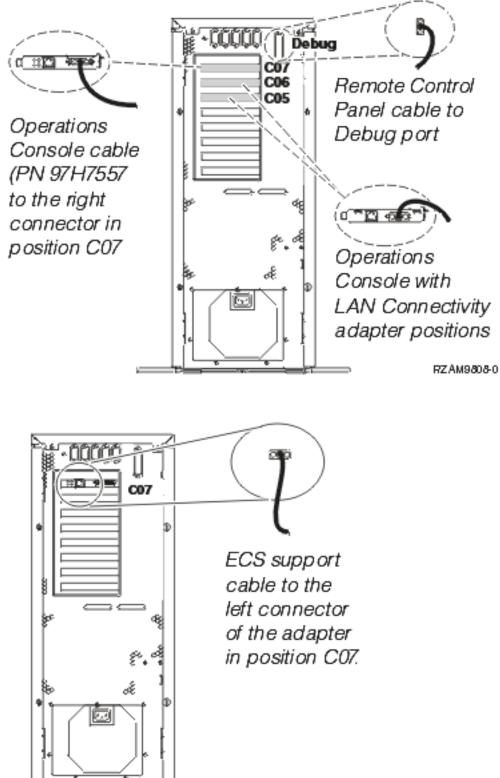
Return to EZ-Setup on the *iSeries Setup and Operations* CD-ROM and continue to set up your server.

Cable a model 800 or model 810 and Operations Console without an expansion unit

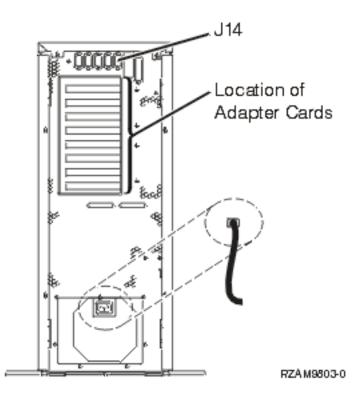
Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a 270, 800, or 810 in a rack topic.



RZAM9807-0



Connect the Operations Console cable

To connect the Operations Console cable, follow these instructions.

- 1. Power off and unplug the PC that is going to serve as the system console.
- 2. Locate the Operations Console cable (PN 97H7557). Connect the Operations Console cable to the right connector of the 2793 or 2794 adapter located in position C07 on the back of the server.

Are you using Operations Console with LAN connectivity?

• No

- **a**. Connect the other end of the Operations Console cable to the first or only communications (serial) port on the back of the PC being used as the console.
- b. Continue with the next task.

• Yes

If your primary choice is LAN connectivity, you do not need to connect the Operations Console cables to your PC at this time. If you develop a problem, you can connect these cables to the PC and set up Operations Console. See Operations Console.

- a. Connect a network cable from the PC that is going to serve as the system console to your local network. Connect a network cable from your local network to the adapter card in position C06 or C05.
- b. Continue with the next task.

Connect the electronic customer support cable

To connect the electronic customer support cable, follow these instructions.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes
 - 1. Connect a telephone cable to the left connector of the adapter located in position C07.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem/powerware.com/ibm-ups/9910solutions.html 🐳 .

Continue with the next task.

Connect external cables

Follow these instructions to connect external cables.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 8. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter

Table 8. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>		
PCI dual WAN	1	
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		
RJ45 Token-ring Filter P75G5958 or 75G2865	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
PCI quad	1	
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		

Table 8. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards		
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
0		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers	1	
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit contro	llers	1

Table 8. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers	L	
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters	L	
	2886	Optical Bus Adapter
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.
- **3**. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. If your server uses the twinaxial console, 01 BN V=F will appear on the control panel when the server is powered on. If your server uses Operations Console, 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.

You have cabled your server.

- 5. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Set up your server

To set up your server, follow these instructions.

Return to EZ-Setup on the iSeries Setup and Operations CD-ROM and continue to set up your server.

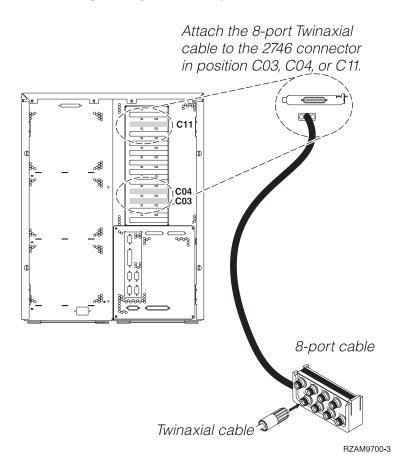
Select the model 820 cabling instructions

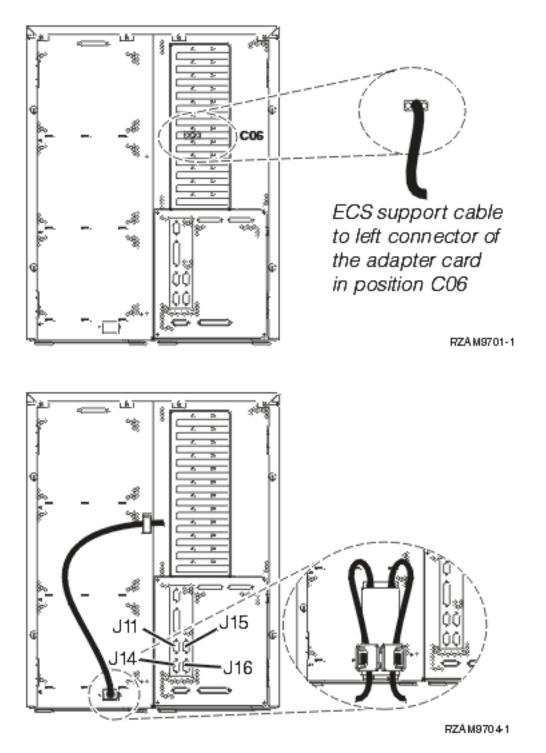
Select the cabling instructions that best match the server you are setting up.

Cable a model 820 and twinaxial console with an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.





Connect the twinaxial cable

Use these instructions to connect the twinaxial cable.

- 1. Look at card positions C03, C04, and C11 on the back of the server. Locate the position that contains card 2746. This is your twinaxial adapter card. If more than one position contains card 2746, then select the card in position C04. If card 2746 is not in position C04, but it is in position C03 or C11, select the card in either location.
- 2. Locate the 8-port twinaxial attachment cable (PN 21F5093). Attach the cable to the connector on the 2746 twinaxial adapter card. You must supply this twinaxial cable.

3. Connect a twinaxial cable from the workstation that you will be using as the system console to port 0 on the 8-port twinaxial attachment cable.

Note: The workstation address of your console must be set to 0. To set the address, refer to the reference material that was shipped with your workstation.

4. Continue with the next task.

Connect the electronic customer support cable

To connect the electronic customer support cable, follow these instructions.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes:
 - 1. Connect a telephone cable to the left connector of the adapter located in position C06.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Cable the expansion unit

Use these instructions to cable the expansion unit.

Note: Do not plug the expansion-unit power cord into the power outlet as directed by the following documents.

- Setting Up Your 0578, 5074, 5078, or 5079 Expansion Unit 1
- Setting Up Your 5075 Expansion Unit 100
- Setting Up Your 5065 or 5066 Expansion Unit 100
- Setting Up Your 0588, 0595, 0694, 5088, 5094, 5095 Expansion Unit 1

After you have set up the expansion unit and replaced the back cover, continue with the next task.

Connect the power cords

Before you connect the power cords, read these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Note: If you are using two power cords, route them through the retainer clips as shown below after you connect them to the server.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the power outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem.powerware.com/ibm-ups/9910solutions.html 🐳 .

Continue with the next task.

Connect external cables

To connect external cables, follow these instructions.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 9. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)	
PCI two-line WAN			
44H7 <i>xxx</i> or 97H73 <i>xx</i>	4745/2745/2742	PCI Two-line WAN Input/Output Adapter	
44H7 <i>xxx</i> , 97H73 <i>xx</i> , or 44H748 <i>x</i> Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter	
PCI dual WAN			
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter	
PCI twinaxial			
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter	

Table 9. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865		
6339098		
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter

Table 9. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)		
Part number 45H2433	2891/2892	Netfinity Server Card		
44H8677 connects to cable 45H2433				
Video extension cable, 44H8676				
	4810/9710	Integrated xSeries server card		
	4821/9712	Integrated xSeries server card		
RAID disk unit controllers		0		
	2757	PCI Ultra RAID Disk Unit Controller		
	2780	PCI-X Ultra4 RAID Disk Unit Controller		
	5703/4778	PCI-X RAID Disk Unit Controller		
	5709	RAID Enabler Card		
Fibre channel disk unit control	lers			
	2787	PCI-X Fibre Channel Disk Unit Controller		
PCI cryptography				
	4801/4758-023	PCI Cryptographic Coprocessor		
	4805/2058	PCI Cryptographic Accelerator		
PCI-X tape unit controllers				
	5704	PCI-X Fibre Channel Tape Unit Controller		
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller		
Bus adapters	Bus adapters			
	2886	Optical Bus Adapter		

Table 9. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.

Note: If you are using two power cords, plug each power cord into a separate power source.

3. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server.

You have cabled your server.

- 6. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) \checkmark . You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

Use these instructions to set up your server.

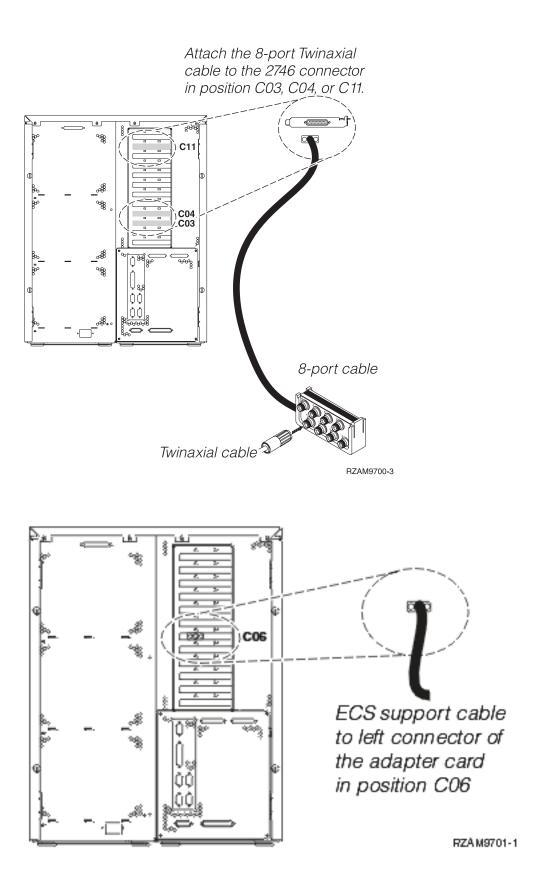
If you have a PC connected to the LAN, you can use EZ-Setup on the *iSeries Setup and Operations* CD-ROM to complete your server setup.

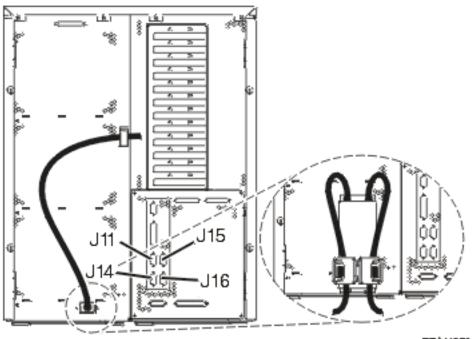
If you do not have a PC connected to the LAN, go to Setting Up Your Twinaxial System 💖 to continue with your server setup.

Cable a model 820 and twinaxial console without an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.





RZAM9704-1

Connect the twinaxial cable

Use these instructions to connect the twinaxial cable.

- 1. Look at card positions C03, C04, and C11 on the back of the server. Locate the position that contains card 2746. This is your twinaxial adapter card. If more than one position contains card 2746, then select the card in position C04. If card 2746 is not in position C04, but it is in position C03 or C11, select the card in either location.
- 2. Locate the 8-port twinaxial attachment cable (PN 21F5093). Attach the cable to the connector on the 2746 twinaxial adapter card. You must supply this twinaxial cable.
- **3**. Connect a twinaxial cable from the workstation that you will be using as the system console to port 0 on the 8-port twinaxial attachment cable.

Note: The workstation address of your console must be set to 0. To set the address, refer to the reference material that was shipped with your workstation.

4. Continue with the next task.

Connect the electronic customer support cable

To connect the electronic customer support cable, follow these instructions.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes:
 - 1. Connect a telephone cable to the left connector of the adapter located in position C06.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Connect the power cords

Before you connect the power cords, read these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Note: If you are using two power cords, route them through the retainer clips as shown below after you connect them to the server.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the power outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

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www.oem.powerware.com/ibm-ups/9910solutions.html 💨 .
```

Continue with the next task.

Connect external cables

To connect external cables, follow these instructions.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

 Cables and connectors
 Adapter card type numbers
 Adapter cards (located on the back of the server)

 PCI two-line WAN
 4745/2745/2742
 PCI Two-line WAN Input/Output Adapter

 44H7xxx or 97H73xx
 4745/2745/2742
 PCI Two-line WAN Input/Output Adapter

 44H7xxx, 97H73xx, or 44H748x
 2793/2794/2771
 PCI Two-line WAN with Modem Input/Output Adapter

 Integrated modem
 87G62xx, 21H49xx, or 75G38xx
 0
 0

 PCI dual WAN
 Example
 0
 0

Table 10. Cables and adapter cards

Table 10. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		
RJ45 Token-ring Filter P75G5958 or 75G2865 6339098 () () () () () () () () () ()	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet	·	

Table 10. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards		
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
<u>('n</u> n_)	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers		0
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card

Table 10. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers	·	
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters	·	
	2886	Optical Bus Adapter
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- 3. Continue with the next task.

Turn on your server

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.

Note: If you are using two power cords, plug each power cord into a separate power source.

3. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server.

You have cabled your server.

6. Continue with the next task.

Note: If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) · You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

Use these instructions to set up your server.

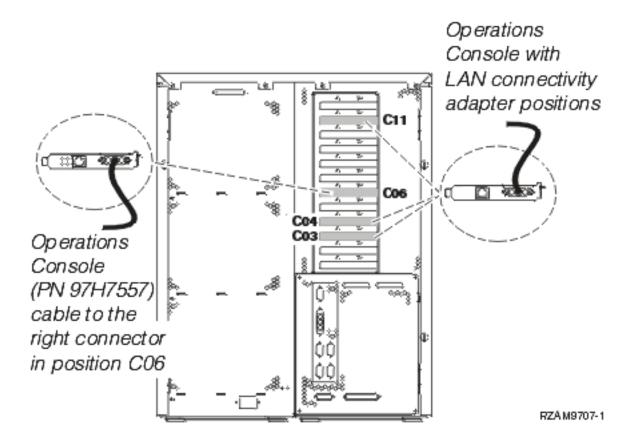
If you have a PC connected to the LAN, you can use EZ-Setup on the *iSeries Setup and Operations* CD-ROM to complete your server setup.

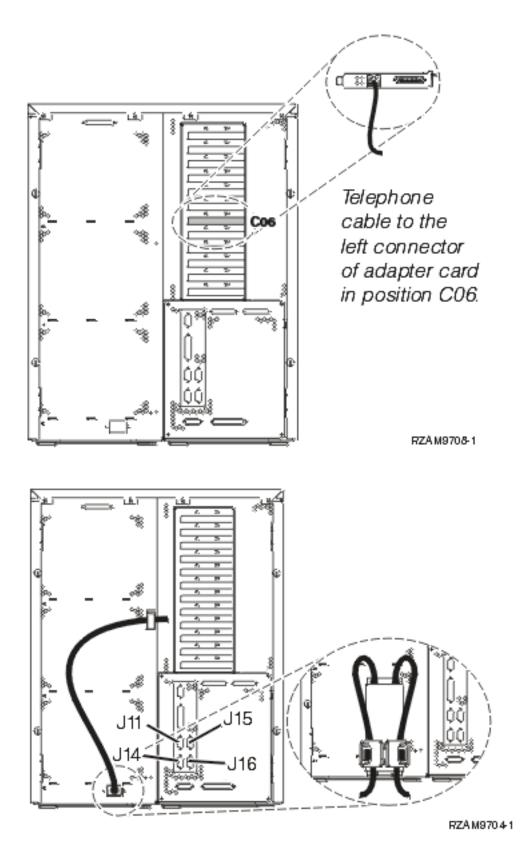
If you do not have a PC connected to the LAN, go to Setting Up Your Twinaxial System 💖 to continue with your server setup.

Cable a model 820 and Operations Console with an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.





Connect the Operations Console cable

Follow these instructions to connect the Operations Console cable.

1. Turn off and unplug the PC that is going to serve as the system console.

- 2. Locate the Operations Console cable (PN 97H7557). Connect the Operations Console cable to the right connector of the 2771 or 2793 adapter located in position C06 on the back of the server. Are you using Operations Console with LAN connectivity?
 - No
 - a. Connect the other end of the Operations Console cable to the first or only communications (serial) port on the back of the PC being used as the console.
 - b. Continue with the next task.
 - Yes

If your primary choice is LAN connectivity, you do not need to connect the Operation Console cables to your PC at this time. If you develop a problem, you can connect these cables to the PC and configure Operations Console. See Operations Console.

- a. Connect a network cable from the adapter card in position C04, C03, or C11 to your local network.
- b. Continue with the next task.

Connect the electronic customer support cable

To connect the electronic customer support cable, follow these instructions.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes:
 - 1. Connect a telephone cable to the left connector of the adapter located in position C06.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Cable the expansion unit

Use these instructions to cable the expansion unit.

- **Note:** Do not plug the expansion-unit power cord into the power outlet as directed by the following documents.
- Setting Up Your 0578, 5074, 5078, or 5079 Expansion Unit
- Setting Up Your 5075 Expansion Unit 1
- Setting Up Your 5065 or 5066 Expansion Unit 1
- Setting Up Your 0588, 0595, 0694, 5088, 5094, 5095 Expansion Unit 💖

After you have set up the expansion unit and replaced the back cover, continue with the next task.

Connect the power cords

Before you connect the power cords, read these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Note: If you are using two power cords, route them through the retainer clips as shown below after you connect them to the server.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the power outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem.powerware.com/ibm-ups/9910solutions.html 🐳 .

Continue with the next task.

Connect external cables

To connect external cables, follow these instructions.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7 <i>xxx</i> , 97H73 <i>xx</i> , or 44H748 <i>x</i>	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		

Table 11. Cables and adapter cards

Table 11. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865		
6339098		
PCI quad	I	
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter

Table 11. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
0		
	4810/9710	Integrated xSeries server card
	4821/9712	Testemented of Carico common could
RAID disk unit controllers	4021/9/12	Integrated xSeries server card
KAID disk diff controllers	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	570574778	
	5709	RAID Enabler Card
Fibre channel disk unit control	lers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers	1	
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters	1	
	2886	Optical Bus Adapter

Table 11. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.

Note: If you are using two power cords, plug each power cord into a separate power source.

3. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server.
 - You have cabled your server.
- 6. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

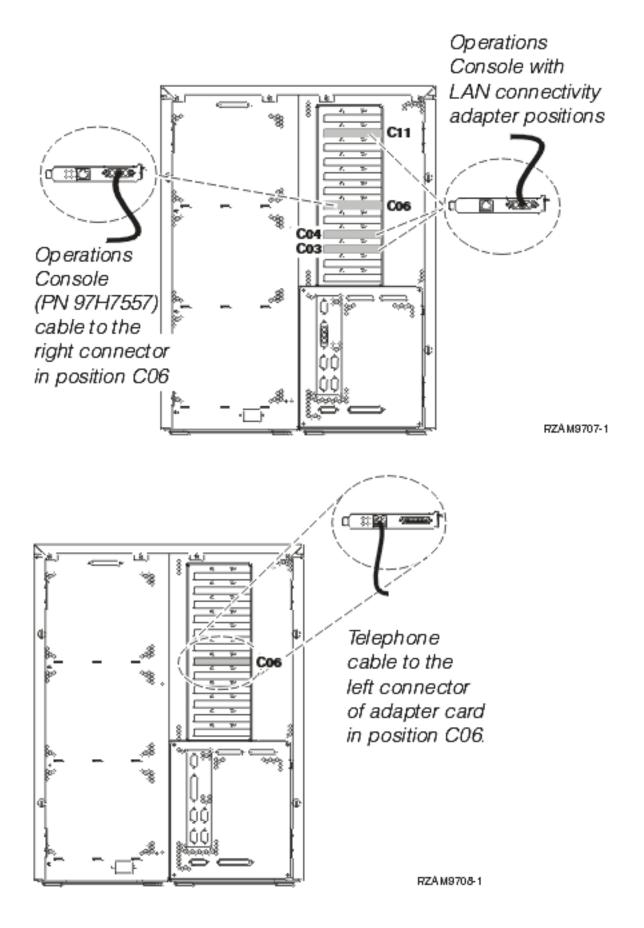
Set up your server

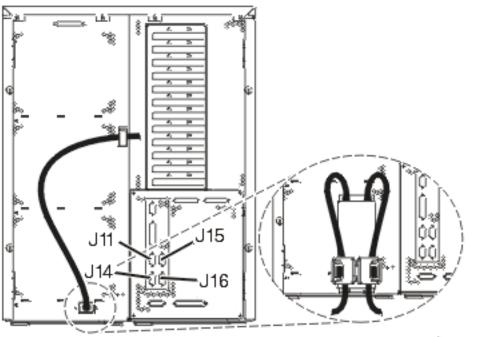
Return to EZ-Setup on the iSeries Setup and Operations CD-ROM and continue to set up your server.

Cable a model 820 and Operations Console without an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.





RZAM9704-1

Connect the Operations Console cable

Follow these instructions to connect the Operations Console cable.

- 1. Turn off and unplug the PC that is going to serve as the system console.
- 2. Locate the Operations Console cable (PN 97H7557). Connect the Operations Console cable to the right connector of the 2771 or 2793 adapter located in position C06 on the back of the server. Are you using Operations Console with LAN connectivity?
 - No
 - **a**. Connect the other end of the Operations Console cable to the first or only communications (serial) port on the back of the PC being used as the console.
 - b. Continue with the next task.
 - Yes

If your primary choice is LAN connectivity, you do not need to connect the Operation Console cables to your PC at this time. If you develop a problem, you can connect these cables to the PC and configure Operations Console. See Operations Console.

- a. Connect a network cable from the adapter card in position C04, C03, or C11 to your local network.
- b. Continue with the next task.

Connect the electronic customer support cable

To connect the electronic customer support cable, follow these instructions.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes:
 - 1. Connect a telephone cable to the left connector of the adapter located in position C06.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Connect the power cords

Before you connect the power cords, read these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Note: If you are using two power cords, route them through the retainer clips as shown below after you connect them to the server.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the power outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem.powerware.com/ibm-ups/9910solutions.html 🐝 .

Continue with the next task.

Connect external cables

To connect external cables, follow these instructions.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 12. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter

Table 12. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>		
PCI dual WAN	1	
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		
RJ45 Token-ring Filter P75G5958 or 75G2865	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
PCI quad	1	
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		

Table 12. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards		
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers	1	
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit contro	llers	1

Table 12. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers	L	
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters		
	2886	Optical Bus Adapter
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- 3. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.

Note: If you are using two power cords, plug each power cord into a separate power source.

3. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server.

You have cabled your server.

6. Continue with the next task.

Note: If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) 3 . You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

Return to EZ-Setup on the iSeries Setup and Operations CD-ROM and continue to set up your server.

Select the model 825 cabling instructions

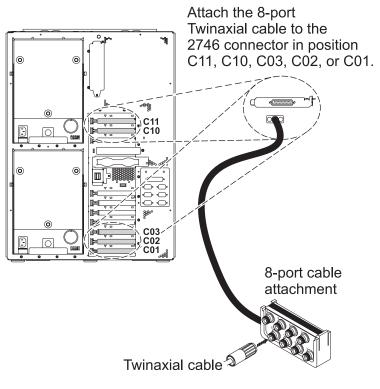
Select the cabling instructions that best match the server you are setting up.

Cable a model 825 and twinaxial console with an expansion unit

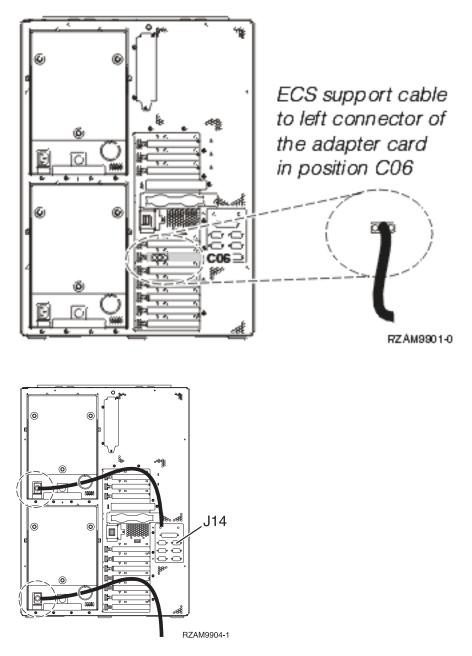
Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a Model 825 in a rack topic.



RZAM9900-4



Connect the twinaxial cable

To connect the twinaxial cable, follow these instructions.

- 1. Look at card positions C11, C10, C03, C02, and C01 on the back of the server. Locate the position that contains card 2746. This is your twinaxial adapter card. If more than one position contains card 2746, then select the first card found in this order: position C11, C10, C03, C02, or C01.
- 2. Locate the 8-port twinaxial attachment cable (PN 21F5093). Attach the cable to the connector on the 2746 twinaxial adapter card. You must supply this twinaxial cable.
- **3**. Connect a twinaxial cable from the workstation that you will be using as the system console to port 0 on the 8-port twinaxial attachment cable.

Note: The workstation address of your console must be set to 0. To set the address, refer to the reference material that was shipped with your workstation.

4. Continue with the next task.

Connect the electronic customer support cable

Follow these instructions to connect the electronic customer support cable.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes:
 - 1. Connect a telephone cable to the left connector of the adapter located in position C06.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Cable the expansion unit

Use these instructions to cable the expansion unit.

- **Note:** Do not plug the expansion-unit power cord into the power outlet as directed by the following documents.
- Setting Up Your 0578, 5074, 5078, or 5079 Expansion Unit 1
- Setting Up Your 5075 Expansion Unit 1
- Setting Up Your 5065 or 5066 Expansion Unit 100
- Setting Up Your 0588, 0595, 0694, 5088, 5094, 5095 Expansion Unit 🥍

After you have set up the expansion unit, continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Note: If you are using two power cords, route them through the retainer ring as shown below after you connect them to the server.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem.powerware.com/ibm-ups/9910solutions.html 🐳 .

Continue with the next task.

Connect external cables

Follow these instructions to connect external cables.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 13. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		

Table 13. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G286	5	
PCI quad		-
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter

Table 13. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers		
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit control	lers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers		
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters	1	
	2886	Optical Bus Adapter

Table 13. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.

Note: If you are using two power cords, plug each power cord into a separate power source.

3. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server, if you have previously removed it.
- You have cabled your server.
- 6. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) \checkmark . You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

To set up your server, follow these instructions.

If you have a PC connected to the LAN, you can use EZ-Setup on the *iSeries Setup and Operations* CD-ROM to complete your server setup.

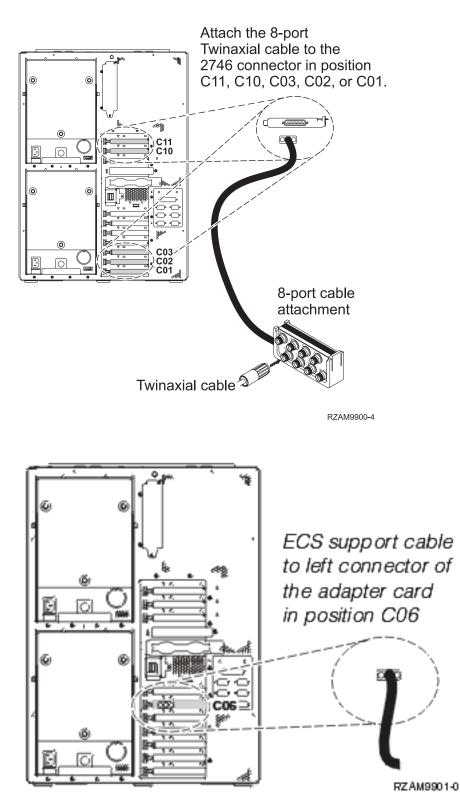
If you do not have a PC connected to the LAN, go to Setting Up Your Twinaxial System 💖 to continue with your server setup.

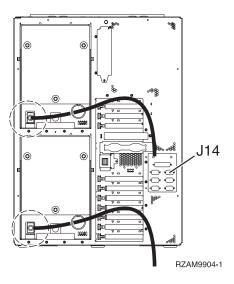
Cable a model 825 and twinaxial console without an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a Model 825 in a rack topic.





Connect the twinaxial cable

To connect the twinaxial cable, follow these instructions.

- 1. Look at card positions C11, C10, C03, C02, and C01 on the back of the server. Locate the position that contains card 2746. This is your twinaxial adapter card. If more than one position contains card 2746, then select the first card found in this order: position C11, C10, C03, C02, or C01.
- 2. Locate the 8-port twinaxial attachment cable (PN 21F5093). Attach the cable to the connector on the 2746 twinaxial adapter card. You must supply this twinaxial cable.
- **3**. Connect a twinaxial cable from the workstation that you will be using as the system console to port 0 on the 8-port twinaxial attachment cable.

Note: The workstation address of your console must be set to 0. To set the address, refer to the reference material that was shipped with your workstation.

4. Continue with the next task.

Connect the electronic customer support cable

Follow these instructions to connect the electronic customer support cable.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes:
 - 1. Connect a telephone cable to the left connector of the adapter located in position C06.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Note: If you are using two power cords, route them through the retainer ring as shown below after you connect them to the server.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem.powerware.com/ibm-ups/9910solutions.html 💨 .

Continue with the next task.

Connect external cables

Follow these instructions to connect external cables.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN	•	
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7 <i>xxx</i> , 97H73 <i>xx</i> , or 44H748 <i>x</i>	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>		
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		

Table 14. Cables and adapter cards

Table 14. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		-
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865		
6339098		
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter

Table 14. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)		
Part number 45H2433	2891/2892	Netfinity Server Card		
44H8677 connects to cable 45H2433				
Video extension cable, 44H8676				
	4810/9710	Integrated xSeries server card		
	4821/9712	Integrated xSeries server card		
RAID disk unit controllers				
	2757	PCI Ultra RAID Disk Unit Controller		
	2780	PCI-X Ultra4 RAID Disk Unit Controller		
	5703/4778	PCI-X RAID Disk Unit Controller		
	5709	RAID Enabler Card		
Fibre channel disk unit control	lers			
	2787	PCI-X Fibre Channel Disk Unit Controller		
PCI cryptography	1			
	4801/4758-023	PCI Cryptographic Coprocessor		
	4805/2058	PCI Cryptographic Accelerator		
PCI-X tape unit controllers	PCI-X tape unit controllers			
	5704	PCI-X Fibre Channel Tape Unit Controller		
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller		
Bus adapters				
	2886	Optical Bus Adapter		

Table 14. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- **3**. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.

Note: If you are using two power cords, plug each power cord into a separate power source.

3. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server, if you have previously removed it.
- You have cabled your server.
- 6. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) \checkmark . You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

To set up your server, follow these instructions.

If you have a PC connected to the LAN, you can use EZ-Setup on the *iSeries Setup and Operations* CD-ROM to complete your server setup.

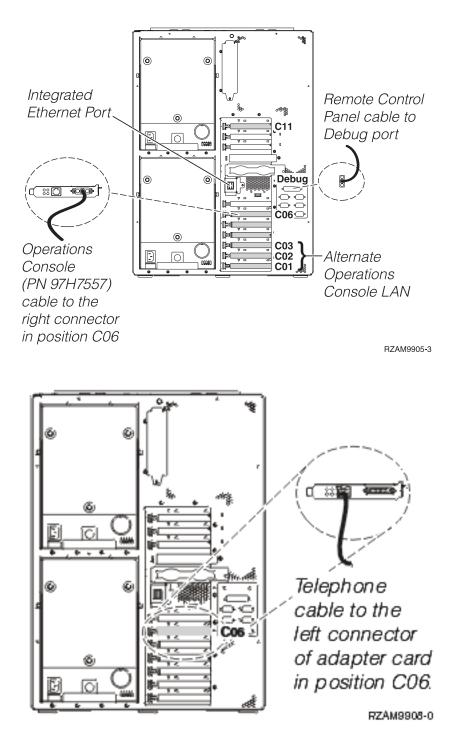
If you do not have a PC connected to the LAN, go to Setting Up Your Twinaxial System 💖 to continue with your server setup.

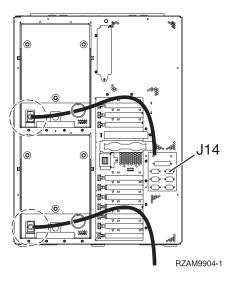
Cable a model 825 and Operations Console with an expansion unit

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a Model 825 in a rack topic.





Connect the Operations Console cable

To connect the Operations Console cable, follow these instructions.

- 1. Turn off and unplug the PC that is going to serve as the system console.
- 2. Locate the Operations Console cable (PN 97H7557). Connect the Operations Console cable to the right connector of the 2771 or 2793 adapter located in position C06 on the back of the server.

Are you using Operations Console with LAN connectivity?

- No
- a. Connect the other end of the Operations Console cable to the first or only communications (serial) port on the back of the PC being used as the console.
- b. Continue with the next task.
- Yes

If your primary choice is LAN connectivity, you do not need to connect the Operation Console cables to your PC at this time. If you develop a problem, you can connect these cables to the PC and configure Operations Console. See Operations Console.

- **a**. Connect a network cable from the integrated Ethernet port to your local area network. Card positions C03, C02, and C01 will only be supported if the integrated Ethernet port is not operational.
- b. Continue with the next task.

Connect the electronic customer support cable

Follow these instructions to connect the electronic customer support cable.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes:
 - 1. Connect a telephone cable to the left connector of the adapter located in position C06.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Cable the expansion unit

Use these instructions to cable the expansion unit.

- **Note:** Do not plug the expansion-unit power cord into the power outlet as directed by the following documents.
- Setting Up Your 0578, 5074, 5078, or 5079 Expansion Unit
- Setting Up Your 5075 Expansion Unit 1
- Setting Up Your 5065 or 5066 Expansion Unit VP
- Setting Up Your 0588, 0595, 0694, 5088, 5094, 5095 Expansion Unit 1

After you have set up the expansion unit, continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Note: If you are using two power cords, route them through the retainer ring as shown below after you connect them to the server.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server.

Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem.powerware.com/ibm-ups/9910solutions.html 💨 .

Continue with the next task.

Connect external cables

Follow these instructions to connect external cables.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 15. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN		

Table 15. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
Integrated modem 87G62xx, 21H49xx, or 75G38xx		
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial		
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865		
PCI quad		
	2805/2806	PCI Quad Modem Input/Output Adapter

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	6312	PCI Quad Digital Trunk Adapter
Ethernet		
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards	1	
Part number 45H2433 44H8677 connects to cable 45H2433	2891/2892	Netfinity Server Card
Video extension cable, 44H8676		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers		·
	2757	PCI Ultra RAID Disk Unit Controller
	2780	PCI-X Ultra4 RAID Disk Unit Controller

Table 15. Cables and adapter cards (continued)

Table 15. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit co	ntrollers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography		
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers		
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters		
	2886	Optical Bus Adapter
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- 3. Continue with the next task.

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.

Note: If you are using two power cords, plug each power cord into a separate power source.

3. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.

- 5. Install the back cover on the server, if you have previously removed it. You have cabled your server.
- 6. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Validation Tool (LVT) · You can find information about LPAR in the Logical partitions topic and additional information about Linux in the Linux in a logical partition topic of the information center.

Set up your server

To set up your server, follow these instructions.

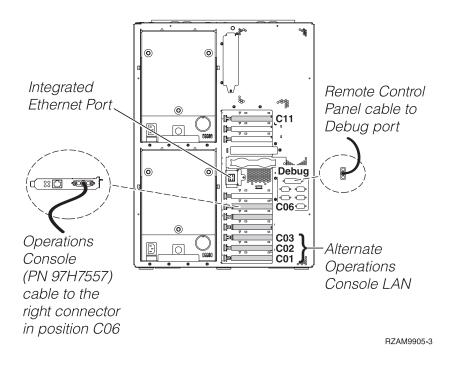
Return to EZ-Setup on the iSeries Setup and Operations CD-ROM and continue to set up your server.

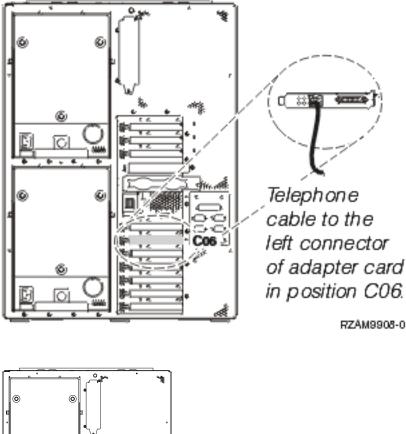
Cable a model 825 and Operations Console without an expansion unit

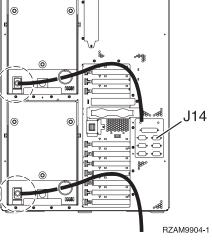
Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Note: If you are installing your server in a rack, see the Install a Model 825 in a rack topic.







Connect the Operations Console cable

To connect the Operations Console cable, follow these instructions.

- 1. Turn off and unplug the PC that is going to serve as the system console.
- 2. Locate the Operations Console cable (PN 97H7557). Connect the Operations Console cable to the right connector of the 2771 or 2793 adapter located in position C06 on the back of the server.

Are you using Operations Console with LAN connectivity?

- No
- a. Connect the other end of the Operations Console cable to the first or only communications (serial) port on the back of the PC being used as the console.
- b. Continue with the next task.
- Yes

If your primary choice is LAN connectivity, you do not need to connect the Operation Console cables to your PC at this time. If you develop a problem, you can connect these cables to the PC and configure Operations Console. See Operations Console.

- **a**. Connect a network cable from the integrated Ethernet port to your local area network. Card positions C03, C02, and C01 will only be supported if the integrated Ethernet port is not operational.
- b. Continue with the next task.

Connect the electronic customer support cable

Follow these instructions to connect the electronic customer support cable.

Are you installing electronic customer support?

- No: Continue with the next task.
- Yes:
 - 1. Connect a telephone cable to the left connector of the adapter located in position C06.
 - 2. Connect the other end of the telephone cable to an analog telephone jack.

Electronic customer support helps automate management of your server and streamline your support. Find out more about electronic customer support by looking at the IBM eServer Technical Support

Advantage information included with your server, or go to the Support for iSeries family **Web** site. Electronic customer support can be configured using the *iSeries Setup and Operations* CD-ROM that came with your server.

Continue with the next task.

Connect the power cords

To connect the power cords, follow these instructions.

If you have a 4758 PCI Cryptographic Coprocessor card to install, go to the instructions that came with the card. This card was shipped in a separate box. Return here after the card is installed.

Note: If you are using two power cords, route them through the retainer ring as shown below after you connect them to the server.

Are you installing an uninterruptible power supply?

• No: Connect the server power cords to the server.

Note: Do not plug the power cord into the power outlet. Do not turn on your server. Continue with the next task.

• Yes: Connect the power control cable for the uninterruptible power supply to J14. Do not plug the uninterruptible-power-supply power cord into the outlet and do not turn on your server. For instructions to complete the installation of the uninterruptible power supply, go to the Web site

www.oem.powerware.com/ibm-ups/9910solutions.html ***** . Continue with the next task.

Connect external cables

Follow these instructions to connect external cables.

If you do not have any external cables to connect to the adapter cards on the back of your server or expansion unit, continue with the next task.

1. Use this table to connect the cables to the matching adapter cards on the back of your server. You might need to connect more than one cable.

Note: If the cable did not come with your server, then you will need to supply it.

Table 16. Cables and adapter cards

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
PCI two-line WAN	1	
44H7xxx or 97H73xx	4745/2745/2742	PCI Two-line WAN Input/Output Adapter
44H7xxx, 97H73xx, or 44H748x	2793/2794/2771	PCI Two-line WAN with Modem Input/Output Adapter
Integrated modem 87G62xx, 21H49xx, or 75G38xx		
PCI dual WAN		
Integrated modem 87G62 <i>xx</i> , 21H49 <i>xx</i> , or 75G38 <i>xx</i>	2772/2773	PCI Dual WAN with Modem Input/Output Adapter
PCI twinaxial	I	
Part number 12F5093	4746/9746/2746	PCI Twinaxial Workstation Controller Input/Output Adapter
PCI token-ring		
RJ45 Token-ring	2744/4959	PCI 4/16/100 Mbps Token-Ring Input/Output Adapter
Filter P75G5958 or 75G2865		
6339098		

Table 16. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2805/2806	PCI Quad Modem Input/Output Adapter
	6312	PCI Quad Digital Trunk Adapter
Ethernet	1	1
RJ45 Ethernet	2838/2849	PCI 100/10 Mbps Ethernet Input/Output Adapter
	5700	PCI 1 Gbps Ethernet Input/Output Adapter
	5701	PCI 1 Gbps Ethernet UTP Input/Output Adapter
	5706	PCI 1 Gbps Ethernet TX Input/Output Adapter
	5707	PCI 1 Gbps Ethernet SX Input/Output Adapter
	5718	PCI 10 Gbps Ethernet Input/Output Adapter
Server cards	1	
Part number 45H2433	2891/2892	Netfinity Server Card
44H8677 connects to cable 45H2433		
Video extension cable, 44H8676		
	4810/9710	Integrated xSeries server card
	4821/9712	Integrated xSeries server card
RAID disk unit controllers	1	, ~
	2757	PCI Ultra RAID Disk Unit Controller

Table 16. Cables and adapter cards (continued)

Cables and connectors	Adapter card type numbers	Adapter cards (located on the back of the server)
	2780	PCI-X Ultra4 RAID Disk Unit Controller
	5703/4778	PCI-X RAID Disk Unit Controller
	5709	RAID Enabler Card
Fibre channel disk unit con	ntrollers	
	2787	PCI-X Fibre Channel Disk Unit Controller
PCI cryptography	I	
	4801/4758-023	PCI Cryptographic Coprocessor
	4805/2058	PCI Cryptographic Accelerator
PCI-X tape unit controllers		
	5704	PCI-X Fibre Channel Tape Unit Controller
	5702/5712/5715	PCI-X U320 Tape/Disk Unit Controller
Bus adapters		
	2886	Optical Bus Adapter
	2887	HSL-2 Bus Adapter
	6417/28E7	HSL-2/RIO-G Bus Adapter

- 2. Connect the other end of the external cables to a network or device.
- 3. Continue with the next task.

Turn on your server

Before you turn on your server, read these instructions.

- 1. Plug in and turn on your console.
- 2. Plug in your server or uninterruptible power supply. Plug in any attached expansion units.

Note: If you are using two power cords, plug each power cord into a separate power source.

3. Open the control panel door on the front of the server. The control panel should be lit and display 01 BN V=F. The server is not yet powered on.

Note: If 01 BN V=F is not on the display, you might need to change the mode. If you need these instructions, go to the Access control panel functions topic in the information center.

- 4. Press the white Power On button. There is a short delay until the server starts to turn on. It will take 5 to 20 minutes. 01 BN V=F or A900 2000, which indicates the console is not connected yet, will appear on the control panel when the server is powered on.
- 5. Install the back cover on the server, if you have previously removed it. You have cabled your server.
- 6. Continue with the next task.
- **Note:** If you plan to install any Linux specific hardware, or if you plan to create logical partitions on your iSeries, you might need to add or move some hardware, such as network I/O adapters, at this time. If you are unsure as to where to put the new or changed hardware, run the LPAR

Set up your server

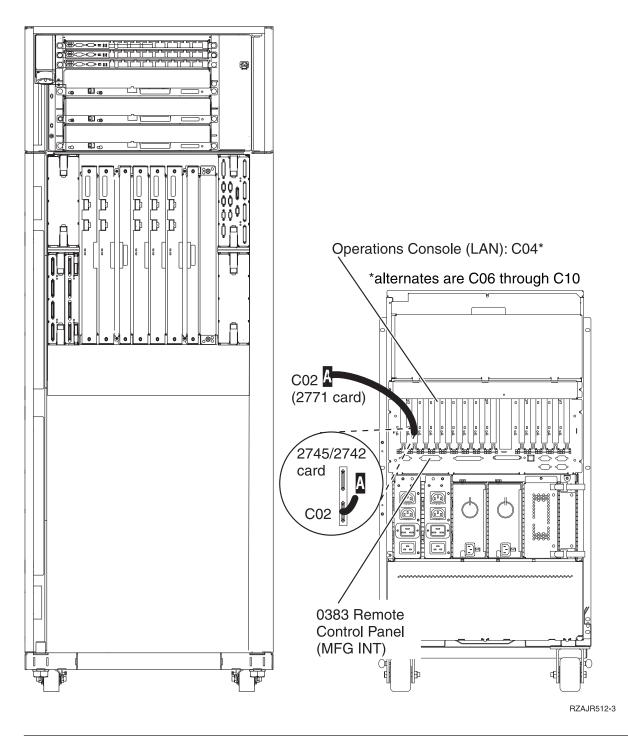
To set up your server, follow these instructions.

Return to EZ-Setup on the iSeries Setup and Operations CD-ROM and continue to set up your server.

Cable a model 890 or model 870 Operations Console

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.



Set up a rack

Use these instructions to connect the cables to your server and to the console.

Print this topic using the Print key.

Install the front tip plate

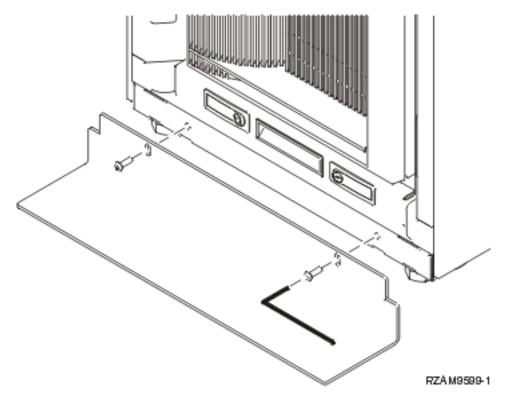
Use these instructions to install the front tip plate.

For safety reasons, you need to install a front tip plate to the bottom of the rack. The tip plate is included in one of the boxes you received with your rack.

CAUTION:

The tip plate must be firmly attached to the bottom front of the rack to prevent the rack from turning over when the servers are pulled out of the rack. Do not pull out a server or install any feature until the tip plate is attached to the rack.

- 1. Align the slots in the tip plate with the mounting holes in the bottom front of the rack.
- 2. Ensure that the base of the tip plate rests firmly on the floor.
- 3. Install the two mounting screws using the tool provided.



- 4. Do the following steps:
 - a. If your rack contains only a 5074, 5078, or 5079 expansion unit, go to Setting Up Your 0578, 5074,

5078, or 5079 Expansion Unit.

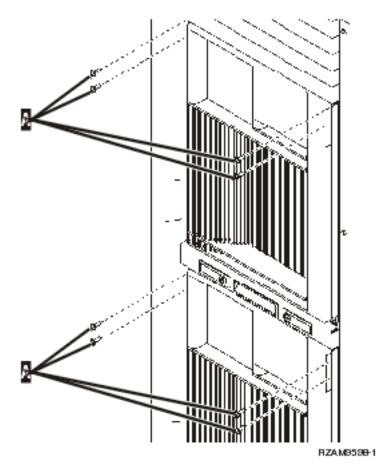
- b. Go to "Cable your rack" on page 111 to connect the power cords to the power distribution unit (skip the steps to cable the server).
- 5. If you have servers in your rack, continue with the next task.

Remove the shipping brackets

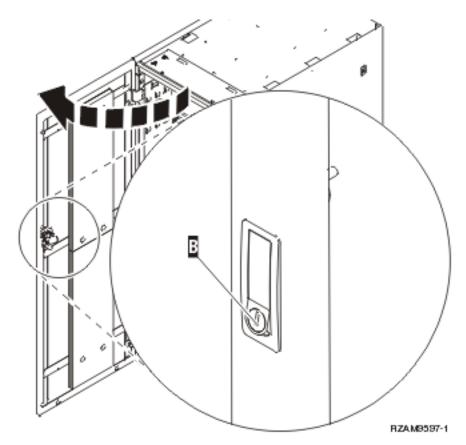
To remove the shipping brackets from your server, follow these instructions.

Before you can install features, you need to access the inside of the servers. To do so, complete the following steps:

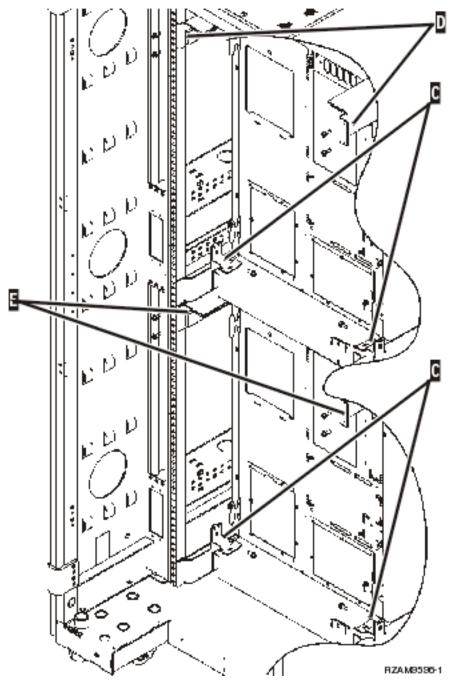
1. Remove the screws A that attach each of the four shipping brackets to the front of the rack.



2. Move to the back of the rack, press the latch B, and open the door.



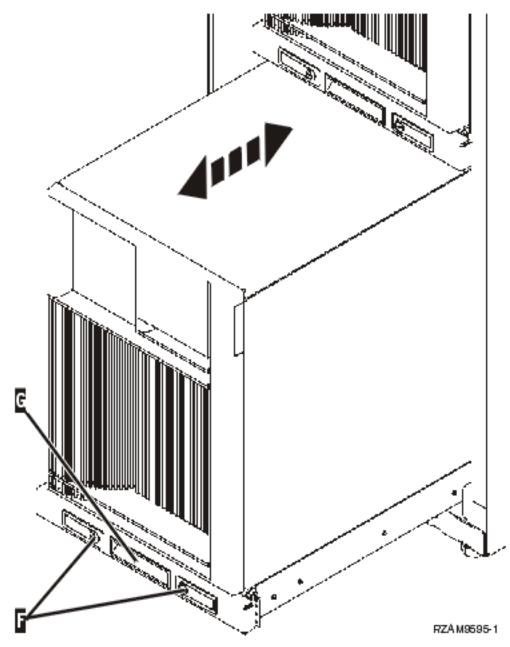
3. Remove the screws that attach each of the four angle brackets C located on the sides of the server trays.



- 4. Remove the screws that attach the upper shipping brackets D to the back of the rack.
- 5. Remove the two shipping brackets D from the upper server through the back of the rack. Push up firmly to remove them.

Note: Save the shipping brackets and use them if the rack is moved in the future.

- 6. Go to the front of the rack.
- 7. Press the latches F and pull the lower server out using the handle G.



- 8. Go to the back of the rack.
- **9**. While supporting the lower shipping brackets, remove the screws E that attach the brackets to the rack. Remove the shipping brackets from the back of the rack.

Note: Save the shipping brackets and use them if the rack is moved in the future.

10. Slide the server back into the rack.

Cable your rack

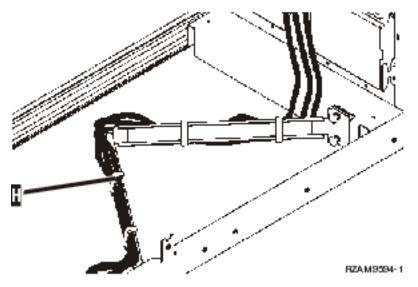
The rack has a cable management arm and fasteners that help manage excess cabling and secure your cables within the rack. The steps in this topic describe how to use the cable management arm and fasteners provided with the rack.

Attention: Because each server in your rack is unique, each server has its own box of cables and materials. Before you begin the cabling process, verify that you are using the correct cables and documentation for the server you are cabling. You can determine which box is for which server by comparing the serial number on the server to the serial number on the container label located on the outside of the ship group container or the packing slip in the box. The serial number is located on the control panel of each server. Cable one server at a time, being sure to use the correct cabling poster for the server you are cabling.

1. Cable the server using the 270 cabling instructions but do not turn on the server. Return to these instructions and continue with the next step.

Note: The servers within the rack are shipped without back covers, so there is no need to remove the back covers as stated in the cabling instructions.

- **2**. After cabling the server, press the latches on the front of the server tray and use the center handle to slide the server out.
- **3**. When the server tray is fully extended, feed the excess cabling along the cable management arm H and secure the cables with the fasteners, as shown. Be sure to allow excess cable at the cable management arm hinge so that you can slide the server tray all the way in without pulling on the cables.



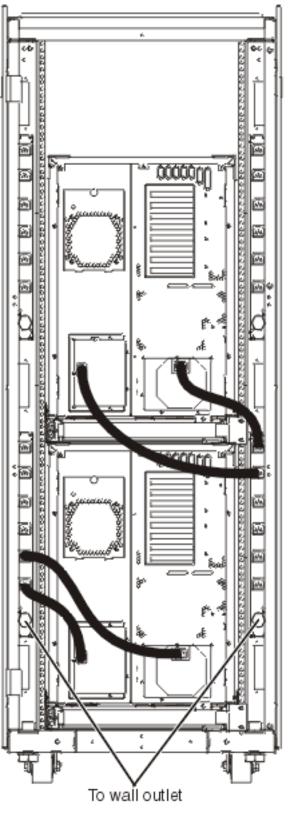
4. Slide the server back into the rack.

Note: Arrange the power cords to meet any local codes or regulations you might have.

5. If you are using a power distribution unit, connect the power cords to it as shown below.

Note: The power distribution unit is optional and you will have one to four power distribution units.

Connect the power cord from the power distribution unit to the wall outlet. If you are using two power cords, plug each power cord into a separate power source.



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- 6. Refer to the cabling instructions section, "Turn on your server" and continue cabling your server.
- 7. Repeat this whole procedure if you have another server in your rack.

- 8. When you are done with the cabling and server setup, close the back door of the rack.
- **9**. Put the brackets that secure the trim back on the rack. These brackets were removed during unpacking.
- 10. Return to the cabling instructions section, "Set up your server", and complete the server setup.

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