IBM 7316-TF2 1U Flat Panel Monitor Console Kit
Installation and Maintenance Guide
SA38-0631-00
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SA38-0631-00
Before using this information and the product it supports, read the information in "Safety Notices" on page V and Appendix B, "Notices," on page 23.

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Safety Notices

A danger notice indicates the presence of a hazard that has the potential of causing death or serious personal injury. Danger notices appear on the following pages:

- [3]

A caution notice indicates the presence of a hazard that has the potential of causing moderate or minor personal injury. Caution notices appear on the following pages:

- [4]

Note: For a translation of these notices, see System Unit Safety Information, order number SA23-2652.

Rack Safety Instructions

- Do not install this unit in a rack where the internal rack ambient temperatures will exceed 40 degrees C.
- Do not install this unit in a rack where the air flow is compromised. Any side, front or back of the unit used for air flow through the unit must not be in direct contact with the rack.
- Care should be taken to ensure that a hazardous condition is not created due to uneven mechanical loading when installing this unit in a rack. If the rack has a stabilizer it must be firmly attached before installing or removing this unit.
- Consideration should be given to the connection of the equipment to the supply circuit so that overloading of circuits does not compromise the supply wiring or overcurrent protection. To provide the correct power connection to the rack, refer to the rating labels located on the equipment in the rack to determine the total power requirement for the supply circuit.
- An electrical outlet that is not correctly wired could place hazardous voltage on the metal parts of the system or the devices that attach to the system. It is the responsibility of the customer to ensure that the outlet is correctly wired and grounded to prevent an electrical shock.
Electrical Safety

Observe the following safety instructions any time you are connecting or disconnecting devices attached to the workstation.

DANGER

An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the devices that attach to the system. It is the responsibility of the customer to ensure that the outlet is correctly wired and grounded to prevent an electrical shock.

Before installing or removing signal cables, ensure that the power cables for the system unit and all attached devices are unplugged.

When adding or removing any additional devices to or from the system, ensure that the power cables for those devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.

Use one hand, when possible, to connect or disconnect signal cables to prevent a possible shock from touching two surfaces with different electrical potentials.

During an electrical storm, do not connect cables for display stations, printers, telephones, or station protectors for communications lines.

CAUTION:

This unit weighs between 18 kg (39.7 pounds) and 32 kg (70.5 pounds). Two persons are required to safely move it. Using less than two persons to move it can result in injury.
Laser Safety Information

CAUTION:
This product may contain a CD-ROM, DVD-ROM, or laser module on a PCI card, which are class 1 laser products.
C30

Laser Compliance

All lasers are certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for class 1 laser products. Outside the U.S., they are certified to be in compliance with the IEC 825 (first edition 1984) as a class 1 laser product. Consult the label on each part for laser certification numbers and approval information.

CAUTION:
All IBM laser modules are designed so that there is never any human access to laser radiation above a class 1 level during normal operation, user maintenance, or prescribed service conditions. Data processing environments can contain equipment transmitting on system links with laser modules that operate at greater than class 1 power levels. For this reason, never look into the end of an optical fiber cable or open receptacle. Only trained service personnel should perform the inspection or repair of optical fiber cable assemblies and receptacles.
C25, C26
About This Book

This book provides information on how to install the IBM® 7316-TF2 1U Flat Panel Monitor Console Kit.

ISO 9000

ISO 9000 registered quality systems were used in the development and manufacturing of this product.

Ergonomic Information

After you have set up your system, we encourage you to visit the Healthy Computing Web site. Good ergonomic practice is important to get the most from your workstation and to avoid discomfort. This means that the equipment and the workplace should be arranged to suit your individual needs and the kind of work you do.

The Healthy Computing Web site gives ergonomic guidelines to help you understand the ergonomic considerations that you should know when working at a computer workstation. The address is: http://www.us.pc.ibm.com/healthycomputing

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- IBM
- Netfinity
- pSeries

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Chapter 1. Introduction

The IBM 7316-TF2 1U Flat Panel Monitor Console Kit is a flat panel monitor and keyboard tray. An optional space-saver keyboard fits inside the front of the keyboard tray. The monitor and keyboard tray occupy only 1U of rack-mounting space inside of a rack cabinet. You can also install a console switch behind the tray to attach more than one server to the flat panel monitor and keyboard.

Note: There is no room to store a mouse in the keyboard tray. A mouse is not required, because the space-saver keyboard has a built-in pointing device.

The 1U Flat Panel Monitor Console Kit comes with the following items:

- One keyboard tray with built-in flat panel monitor
- One left-side console-switch-mounting bracket
- One right-side console-switch-mounting bracket
- Two keyboard or mouse extension cables
• Miscellaneous hardware kit (for attaching console-switch-mounting brackets and installing the keyboard tray in a rack cabinet)
• Two self-adhesive hook-and-loop-fastener strips
• Cable straps
• One CD containing monitor drivers
• Monitor documentation
• *IBM NetBAY Rack Safety Information* book
• This documentation
• One space-saver keyboard (optional)

• One 1.8 m (6 ft) power cord (optional)

• One CD containing keyboard and mouse drivers
• Keyboard documentation

You will need the following tools to install the 1U Flat Panel Monitor Console Kit:
• Scissors
• Number 2 Phillips screwdriver
• Flat-blade screwdriver (for installing cage nuts in some rack cabinets)

Refer to the documentation that comes with your rack cabinet or console switch for further information about those products.

**Note:** The illustrations in this documentation might differ slightly from your hardware.
Chapter 2. Installing the Flat Panel Monitor Console Kit

The Flat Panel Monitor Console Kit occupies 1U of rack-mounting space in a rack cabinet. If you have a NetBAY25, NetBAY42, NetBAY42 Enterprise, NetBAY22 with Rack Extension Kit, Netfinity® 9306 Model 900 with Rack Extension Kit, or similar rack cabinet, you can use the brackets that come with this kit to install an optional console switch in the same 1U of rack-mounting space.

Attention: The Flat Panel Monitor Console Kit comes already assembled. You must have at least 3U of rack-mounting space available in your rack cabinet to install the kit. After you install the Flat Panel Monitor Console Kit, you can install other devices in your rack cabinet, above or below the kit.

Safety Considerations

Observe the following safety precautions anytime you work with this Flat Panel Monitor Console Kit.

DANGER

An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the devices that attach to the system. It is the responsibility of the customer to ensure that the outlet is correctly wired and grounded to prevent an electrical shock.

Before installing or removing signal cables, ensure that the power cables for the system unit and all attached devices are unplugged.

When adding or removing any additional devices to or from the system, ensure that the power cables for those devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.

Use one hand, when possible, to connect or disconnect signal cables to prevent a possible shock from touching two surfaces with different electrical potentials.

During an electrical storm, do not connect cables for display stations, printers, telephones, or station protectors for communications lines.

To Connect:

1. Turn everything OFF.
2. First, attach all cables to devices.
3. Attach signal cables to connectors.
4. Attach power cords to outlet.
5. Turn device ON.

To Disconnect:

1. Turn everything OFF.
2. First, remove power cords from outlet.
3. Remove signal cables from connectors.
4. Remove all cables from devices.
Installing the Flat Panel Monitor and Keyboard Tray

To install the kit in a rack cabinet, two people are required to lift and install the flat panel monitor and keyboard tray. Complete the following steps:

1. Refer to the documentation that comes with your rack cabinet for additional information on the following:
   • Removing rack doors and side panels might make installation easier.
   • Using cage nuts for rack cabinets with square holes, or clip nuts for rack cabinets with round holes.
   • Using a cage nut tool or flat-blade screwdriver to install cage nuts.

   ! CAUTION:
   This unit weighs between 18 kg (39.7 pounds) and 32 kg (70.5 pounds). Two persons are required to safely move it. Using less than two persons to move it can result in injury.

2. Place the tray on a stable flat surface; then, carefully cut the cable ties on the cable-management arm and slide rail to release the bundled cables. Move the power cords out of the way, but keep them nearby for later in the installation procedure.
Attention: The video cable is connected to the flat panel monitor. Be careful as you install the tray in the rack cabinet that you do not pinch or cut the video cable.

3. Loosen the four rail-adjustment screws on both rear slide-rail brackets; then, extend the brackets to their maximum outward adjustment.

Note: To adjust the left slide rail, you must remove the screw that attaches the cable-management arm to the left-rear bracket.

4. Use the following illustration to guide you as you install either cage nuts or clip nuts for the 1U location that you chose to install your flat panel monitor and keyboard tray. Use the cage nuts or clip nuts from the miscellaneous hardware kit.
5. Lift and tilt the flat panel monitor and keyboard tray; then slide it into position in the rack. With one person at the front of the rack cabinet, and one person at the rear of the rack cabinet, adjust the flat panel monitor and keyboard tray to the desired position in the rack.

**Note:** Ensure that the rear slide-rail brackets extend outside of the rear rack cabinet mounting flanges, and the front slide-rail brackets are outside of the front rack cabinet mounting flanges.

6. Adjust the rear slide-rail brackets to fit the depth of your rack cabinet; then, align the drawer with the cage nuts or clip nuts and attach the brackets to the rack cabinet using four screws from the miscellaneous hardware kit.

**Note:** Do not install screws in the middle holes of the slide rail. At the rear of the tray, these holes are for the optional console switch mounting brackets.

7. While one person pulls the tray halfway out of the front of the rack cabinet and supports the weight of the tray, attach the front of the tray to the rack cabinet using four of the screws from the miscellaneous hardware kit.
Note: Do not install screws in the middle holes of the slide rail. At the front of the tray, these holes are for the security screws.

8. If your tray already has a space-saver keyboard installed, go to step 16 on page 10.
9. Fully extend the tray; then, carefully lift the rear of the flat panel monitor and raise the monitor to the full upright position.

10. To remove the cable cover from the tray, remove the cable-cover screw from underneath the tray; then, slide the cover toward the rear of the tray until the tab on the cover is out of the slot in the front of the tray. Lift the cable cover from the tray and set it aside to install later in this procedure.
11. Peel the protective strips from the hook-and-loop fastener strips inside the keyboard storage area; then, route the keyboard and mouse connectors through the small round opening on the right side of the tray.

**Note:** Pull the full length of the cable through the opening.

12. Carefully set the keyboard into the tray; then, route the keyboard and mouse cable beside the video cable and toward the cable-management arm.

13. Install the cable cover that you removed earlier.

14. Carefully push the flat panel monitor down to the storage position; then, slide the tray inward.

15. Secure the keyboard and mouse cable to the cable-management arm using the existing hook-and-loop fastener cable straps.
16. Tighten the three slide-rail-adjustment screws; then, install the screw that attaches the cable-management arm to the left slide-rail bracket.
17. Connect the keyboard and mouse connectors to the extension cables that come with this kit; then, connect a power cord to the power supply.

18. Connect the keyboard, video, and mouse connectors to either a server or a console switch in your rack cabinet; then, connect the power cord to a properly grounded electrical outlet.

19. Fully extend the tray from the front of the rack cabinet; then, neatly route cables within your rack cabinet and secure them with cable ties along the way.

20. Refer to the flat-panel-monitor documentation that comes with this kit for information about operating your monitor. Refer to the space-saver keyboard documentation for information about operating your keyboard.

**Note:** When the monitor and keyboard are not in use, or if your rack cabinet is in a vibration-prone area, tighten the security screws on the front of the tray to secure the tray inside the rack cabinet.

If you are installing an optional console switch, continue to "Installing an Optional Console Switch" on page 12.

Security screw
Installing an Optional Console Switch

Read “Safety Considerations” on page 3.

You can use a console switch to attach more than one server to a single monitor and space-saver keyboard. The console switch option is available separately, but custom mounting brackets come with this kit. You can use the brackets and instructions that come with the console switch for other installation options.

Installing the console switch behind the Flat Panel Monitor Console Kit is an alternative that allows you to store the console switch in the same 1U space as the flat panel monitor and keyboard tray. To install the console switch behind the tray, you must use the brackets that come with this kit.

Attention: The console switch will extend beyond the rear rack-mounting flanges when you install the switch behind the tray.

To install a console switch behind the tray, complete the following steps:

1. Attach the left-side bracket to the left side of the console switch using two 8-32 screws; then, attach the right-side bracket to the right side of the console switch.

Notes:

a. You can install your console switch at different depths in the rack cabinet by aligning different holes in the brackets with the holes on the console switch. Ensure that you use the same set of holes on both brackets to properly align your console switch.

b. The left-side bracket has a channel for you to route the keyboard, video, and mouse cables. Ensure that you attach the brackets to the console switch so that the channel on the left-side bracket faces upward.

2. If you can install your console switch without removing the power supply storage bracket, go to step 5 on page 14. Otherwise, continue with step 3 on page 13.
3. Lift the power supply from the power supply storage bracket; then, use one of the self-adhesive hook-and-loop-fastener strips to attach the power supply to your rack cabinet.

**Note:** The power supply cable is already connected to the flat panel monitor and routed through the cable-management arm. There is extra cable so that you can move the power supply over a short distance.

4. To remove the power supply storage bracket from the cable-management arm, remove the two screws and pull the bracket away from the arm. Store the parts in a safe place for possible future use.
5. Install the console switch behind the flat panel monitor and keyboard tray using two screws from the miscellaneous hardware kit.

6. Route the keyboard, video, and mouse cables through the channel in the left-side bracket on the console switch; then, connect the keyboard, video, and mouse connectors to the console switch.

7. Refer to the documentation that comes with your console switch for information about connecting your flat panel monitor, space-saver keyboard, and servers to the console switch.
Chapter 3. Hardware Maintenance Information

This chapter contains information about IBM field replaceable unit (FRU) availability for the 1U Flat Panel Monitor Console Kit and replacement instructions for parts not covered during a typical installation. Troubleshooting and servicing of complex problems should be performed only by trained service personnel.

Field Replaceable Unit Part Numbers

IBM FRU part numbers are subject to change without notice. This section contains a listing of the FRU part numbers available at the time this document was published.

Note: If a monitor is replaced during the warranty period, obtain a Repair Identification (RID) tag. Record the date for the beginning of the original warranty period on the RID tag, and attach it to the replacement monitor.

<table>
<thead>
<tr>
<th>FRU Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>00P3869</td>
<td>Monitor and keyboard tray assembly, without keyboard</td>
</tr>
<tr>
<td>32P1099</td>
<td>Slide rails with brackets</td>
</tr>
<tr>
<td>32P1601</td>
<td>Cable-management arm</td>
</tr>
<tr>
<td>See the bottom of the keyboard.</td>
<td>Space-saver keyboard</td>
</tr>
</tbody>
</table>
Replacing the Cable-Management Arm

To replace the cable-management arm complete the following steps:

1. Turn off the monitor; then, disconnect power to the monitor.
2. Disconnect the keyboard, mouse, and video connectors from the server or console switch.
3. If you installed a console switch in the rear of your rack cabinet using the brackets that come with the tray, you must remove the console switch before you can replace the cable-management arm.
4. Temporarily remove the keyboard, mouse, video, and power cables from the cable-management arm.
5. Remove the three screws that attach the cable-management arm to the tray; then, attach the new cable-management arm to the tray using those same screws.

6. Route the keyboard, mouse, video, and power cables through the new cable-management arm and secure them along the way with cable straps.
7. If you removed a console switch from behind the tray, you can reinstall it now.
8. Reconnect the keyboard, mouse, and video connectors to the server or console switch.
9. Connect power to the monitor. Your Flat Panel Monitor Console Kit is ready for use.
Replacing Slide Rail Assemblies

To replace a slide rail assembly on the monitor and keyboard tray assembly complete the following steps:

1. Turn off the monitor; then, disconnect power to the monitor.
2. Disconnect the keyboard, mouse, and video connectors from the server or console switch.
3. Remove the monitor and keyboard tray assembly from the rack cabinet.

**Note:** You will need 3U of rack-mounting space to remove the tray from the rack cabinet. This might require you to turn off other devices, disconnect them, and remove them from the rack cabinet. Refer to the documentation that comes with those devices for detailed information about how to remove them from a rack cabinet.

4. Place the tray on a stable flat surface; then, remove the rear slide rail sections and the monitor cover.

   a. Remove the two screws on each side that attach the rear slide rail sections to the slide rail assembly.

   **Note:** These screws also attach the monitor cover to the tray and one of the screws also attaches the rear of the cable-management arm to the tray.

   b. Loosen the four cover nuts that hold the monitor cover in place; then, carefully lift the monitor cover away from the tray and temporarily set it aside.
5. Push in the release latch on each side of the tray; then, slide the slide rail assemblies off the tray.

6. Remove the two screws on each side that attach the remaining slide rail sections to the tray; then, attach the corresponding new slide rail sections to the tray using the same screws.

7. Slide the new slide rail assemblies onto each side of the tray.

8. Reinstall the monitor cover that you removed earlier along with the new rear slide rail sections.

9. Follow the instructions in this documentation to install the monitor and keyboard tray again in your rack cabinet; then, install any other devices that you removed from the rack cabinet.
Appendix A. Communications Statements

The following statement applies to this product. The statement for other products intended for use with this product appears in their accompanying documentation.

Federal Communications Commission (FCC) Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Neither the provider nor the manufacturer is responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment.
UnAUTHORIZED changing changes or modifications could void the user’s authority to operate the equipment.

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

European Union (EU) Statement

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. The manufacturer cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of option cards supplied by third parties. Consult with your dealer or sales representative for details on your specific hardware.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
**International Electrotechnical Commission (IEC) Statement**

This product has been designed and built to comply with IEC 60950.

**United Kingdom Telecommunications Safety Requirements**

This equipment is manufactured to the International Safety Standard EN60950 and as such is approved in the UK under the General Approval Number NS/G/1234/J/100003 for indirect connection to the public telecommunication network.

The network adapter interfaces housed within this equipment are approved separately, each one having its own independent approval number. These interface adapters, supplied by the manufacturer, do not use or contain excessive voltages. An excessive voltage is one which exceeds 70.7 V peak ac or 120 V dc. They interface with this equipment using Safe Extra Low Voltages only. In order to maintain the separate (independent) approval of the manufacturer’s adapters, it is essential that other optional cards, not supplied by the manufacturer, do not use main voltages or any other excessive voltages. Seek advice from a competent engineer before installing other adapters not supplied by the manufacturer.

**Avis de conformité aux normes du ministère des Communications du Canada**

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

**Canadian Department of Communications Compliance Statement**

This Class A digital apparatus meets the requirements of the Canadian Interference–Causing Equipment Regulations.

**VCCI Statement**

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。VCCI-A

The following is a summary of the VCCI Japanese statement in the box above.

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.
Electromagnetic Interference (EMI) Statement - Taiwan

警告使用者：
這是甲類的資訊產品，在
居住的環境中使用時，可
能會造成射頻干擾，在這
種情況下，使用者會被要
求採取某些適當的對策。

The following is a summary of the EMI Taiwan statement above.

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user will be required to take adequate measures.

Radio Protection for Germany


Der Aussteller der Konformitätserklärung ist die IBM Germany.

Dieses Gerät erfüllt die Bedingungen der EN 55022 Klasse A. Für diese von Geräten gilt folgende Bestimmung nach dem EMVG:

Geräte dürfen an Orten, für die sie nicht ausreichend entstört sind, nur mit besonderer Genehmigung des Bundesministers für Post und Telekommunikation oder des Bundesamtes für Post und Telekommunikation betrieben werden. Die Genehmigung wird erteilt, wenn keine elektromagnetischen Störungen zu erwarten sind.

(Auszug aus dem EMVG vom 9.Nov.92, Para.3, Abs.4)

Hinweis

Dieses Genehmigungsverfahren ist von der Deutschen Bundespost noch nicht veröffentlicht worden.
Appendix B. Notices

This information was developed for products and services offered in the U.S.A.

The manufacturer may not offer the products, services, or features discussed in this document in other countries. Consult the manufacturer’s representative for information on the products and services currently available in your area. Any reference to the manufacturer’s product, program, or service is not intended to state or imply that only that product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any intellectual property right of the manufacturer may be used instead. However, it is the user’s responsibility to evaluate and verify the operation of any product, program, or service.

The manufacturer may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the manufacturer.

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This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. The manufacturer may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Information concerning products made by other than the manufacturer was obtained from the suppliers of those products, their published announcements, or other publicly available sources. The manufacturer has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to products made by other than the manufacturer. Questions on the capabilities of products made by other than the manufacturer should be addressed to the suppliers of those products.
Readers’ Comments — We’d Like to Hear from You

IBM 7316-TF2 1U Flat Panel Monitor Console Kit
Installation and Maintenance Guide

Publication No. SA38-0631-00

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Accurate

Complete

Easy to find

Easy to understand

Well organized

Applicable to your tasks

Please tell us how we can improve this book:

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Thank you for your responses. May we contact you?  ☐ Yes  ☐ No

When you send comments to IBM, you grant IBM a nonexclusive right to use or distribute your comments in any way it believes appropriate without incurring any obligation to you.

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Company or Organization

Phone No.

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Information Development
Department H6DS-905-6C006
11501 Burnet Road
Austin, TX  78758-3493