

Dialogic®

MSI/80PCI-GBL

MSI/160PCI-GBL

Station Interface Boards

Quick Install Card

Dialogic®

Part Number 64-0090-02
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Before You Begin

Protecting the Board from Damage

CAUTION: All computer boards are sensitive to electrostatic discharge (“ESD”). Handle all static-sensitive boards and components at a static-safe work area, and observe anti-static precautions at all times.

If you are not familiar with ESD safety precautions, visit <http://www.dialogic.com/support/hwinstall> to learn more.

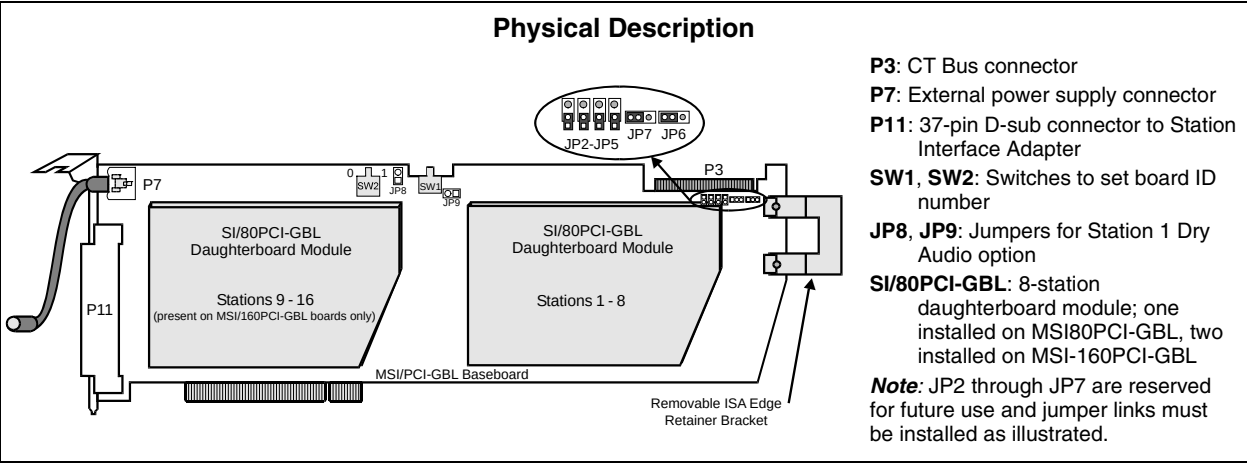
Unpacking the Board

- Unpack the Dialogic® Station Interface Board (“board”) according to the following steps:
1. Prepare a static-safeguarded work area.
 2. Carefully remove the board from the shipping carton and anti-static packaging. Handle the board by the edges and avoid touching the board’s components.
 3. Lay the board on the static-dissipative work surface.

Note: Place boards in static-shielding bags when carrying boards from station to station.
CAUTION: Do not remove the board from the anti-static packaging until you are ready to install it. Observe proper anti-static precautions at all times.

System Considerations: REN

Each station set has a Ringer Equivalence Number (REN), which represents the amount of electrical power required to ring that telephone. The REN is



usually shown on the bottom of the station set. The maximum REN for each station on an MSI/PCI-GBL board is 2.0.

CAUTION: Using a higher system REN rating will cause permanent damage to the ring generator.

When multiple station sets are connected to one station using a splitter, the REN rating for that station is the sum of all station sets connected to it. For example, two 0.5 REN phone sets on station 1 yields a 1.0 REN rating for that station.

Configuring the Hardware

This product uses Plug and Play technology, including hardware auto-configuration for IRQ and memory address. This technology enables quick installation and operation in Windows systems using the factory default hardware settings. However, you should review the following information to determine if any of the optional configuration items apply to your system.

Setting the Board Identification Number

The device driver (part of the Dialogic® System Software), assigns each board in the system a unique board instance (ID) number that the system software uses to identify the board. Board instance numbers are assigned in ascending order, beginning with 0, as each board in the system is detected. The order used for detection is determined by the setting of switches, SW1 and SW2.

In a Windows system, you may either allow the system software to assign board instance numbers automatically based on PCI bus slot numbers (geographical sequence, the default) by leaving the

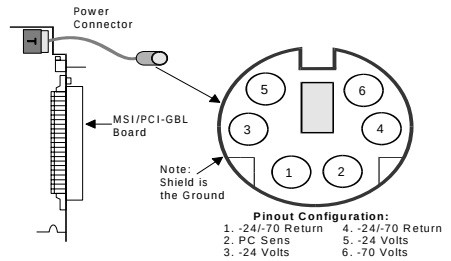
address switch setting at 0 for all boards, or you may program the sequence for board instance numbers by setting the address to a unique, non-0 setting on each board.

In systems where boards are set to use both assignment sequence methods, the boards that use the geographical sequence method (address switch set to 0) are numbered before boards that have explicit ID numbers set. In systems combining ISA boards (which only support explicit ID settings) with PCI boards, the ISA boards will be numbered last, after any PCI boards that use explicit ID settings.

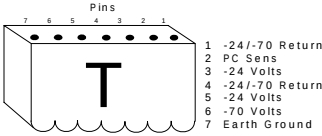
Off-Board Power Supply

The Power Module for the MSI/PCI-GBL generates -24 volts to power the board’s station interface loop and -70 volts for ringing. One Power Module is required for each MSI/PCI-GBL board. The Power Module connects to a pre-wired power cable that is attached to the MSI/PCI-GBL board, which uses the following pin configuration.

Off-Board Power Module Connector



External Power Supply Connection (P7)



CAUTION: The external power supply must be connected and powered on before turning on the PC.

The following part was used to pass European Class B regulations. Dialogic does not claim compliance if this part (or a direct equivalent) is not used.

- Power Supply: Fair Rite 264354002

Setting the Dry Audio Option

The loop current for Channel 1 can optionally be blocked to allow an audio signal to be sent without the presence of any DC voltage. This is referred to as the “dry audio” option. To block the loop current for Channel 1, remove the links from both JP8 and JP9 on the main board of the MSI/PCI-GBL assembly.

Note: Ringing must not be allowed when the dry audio option is set, because this may damage sensitive devices connected to this channel.

Important: When the Dry Audio feature of the MSI/PCI-GBL is used, it is the responsibility of the customer to ensure FCC Part 68 and Industry Canada CS-03 compliance of the total system. Dialogic assumes no responsibility for, nor claims compliance to, Part 68 or CS-03 of the Dry Audio feature when it is used.

The signal power levels of the dry audio input are not controlled by the MSI/PCI-GBL. It is therefore possible to cause other network interface cards in the system to exceed maximum signal levels allowed by Part 68 and CS-03 rules. The customer should ensure at the system level that the audio input source attached to the MSI dry audio input cannot cause non-compliant network power levels by testing and registering the audio source with the system.

Installing the Hardware

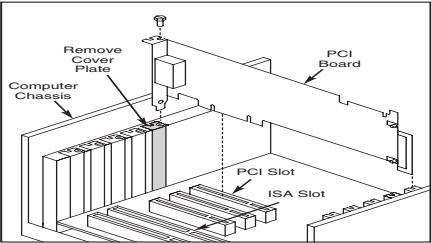
CAUTION: To prevent hardware damage to the board, make sure that the external power supply is connected to the MSI/PCI-GBL board and is powered on before turning on the computer.

Note: For new installations, install the hardware before installing the system software. If you are

adding hardware to an existing system, you do not need to uninstall existing system software.

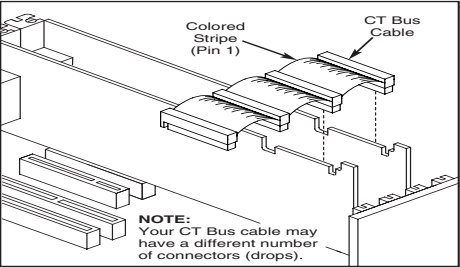
1. Working with your computer at a static-safe work area, switch off the power and disconnect all power cords from the electrical outlets.
2. Remove the chassis cover.
3. Select an empty PCI expansion bus slot and remove the slot's retaining screw and cover plate.
4. If you are not installing your board in an ISA form factor PCI slot, remove the ISA edge retainer bracket from the board (see Physical Description).
5. Using the slot's board guides, insert the edge connector of the board into the bus slot. Press firmly until the board is securely seated in the slot.
6. Replace and tighten the retaining screw to secure the board firmly in the chassis slot.

Installing the PCI Board



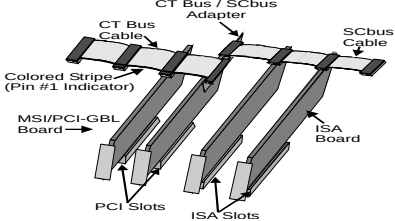
7. Repeat steps 3–6 for each board you are installing.
8. If appropriate, use an optional CT Bus cable to connect the board(s) you are installing to other boards in the system. To preserve the electrical integrity of the CT Bus, use a CT Bus cable with an appropriate number of connectors (“drops”). No more than two connectors at either end of the cable should be left unused.

Installing the CT Bus Cable



9. If you are using a combination of CT Bus and SCbus boards, install the CT Bus to SCbus adapter (item CTBUSTOSCBUSADAP) on the MSI/PCI board closest to the SCbus boards, and connect CT Bus and SCbus cables to the adapter.

Installing a CT Bus/SCbus Adapter

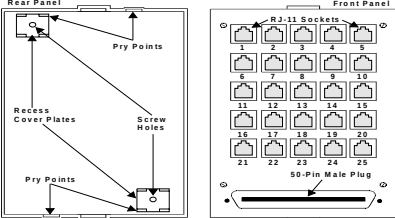


10. Replace the computer cover when finished.
11. Connect the Power Module to the pre-wired power cable on each MSI/PCI-GBL board.
12. Connect the power cords on all Power Modules and the computer to a power source.
13. Ensure that all Power Modules are powered up before turning on the computer.

Connecting the Station Adapter

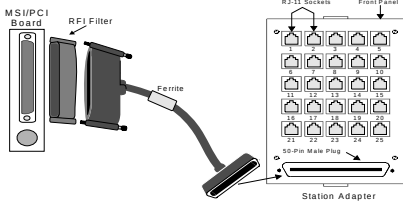
1. Open the back of the SA/240 station adapter and remove the adhesive pads from the housing.
2. Mount the back of the station adapter to the desired location using one of two methods:
 - Using double-sided tape adhere the rear panel to the mounting surface.
 - Using screws through the screw holes to fasten the rear panel to the mounting surface.

Station Adapter Mounting



3. Reassemble the front panel of the adapter into the back panel.
4. Connect the station adapter to the MSI/PCI-GBL board via the RFI filter and 37-pin to 50-pin station adapter cable.

Station Adapter Cable Connections



The following parts were used to pass European Class B regulations. Dialogic does not claim compliance if these parts (or direct equivalents) are not used.

- Station Adapter Cable (split): Steward 28A2024-0A0
- RFI Filter: Dialogic part number 06-0009-00

The following pinout is provided for those who need to build their own station interface cable. Note that for the MSI/80PCI-GBL, only pins 1 through 8 and 26 through 33 are used.

Station Adapter 50-pin Receptacle Pinout

SIGNAL	PIN #	SIGNAL
Ring 1	1	Tip 26
Ring 2	2	Tip 27
Ring 3	3	Tip 28
Ring 4	4	Tip 29
Ring 5	5	Tip 30
Ring 6	6	Tip 31
Ring 7	7	Tip 32
Ring 8	8	Tip 33
Ring 9	9	Tip 34
Ring 10	10	Tip 35
Ring 11	11	Tip 36
Ring 12	12	Tip 37
Ring 13	13	Tip 38
Ring 14	14	Tip 39
Ring 15	15	Tip 40
Ring 16	16	Tip 41
Unused	17	Unused
Unused	18	Unused
Unused	19	Unused
Unused	20	Unused
Unused	21	Unused
Unused	22	Unused
Unused	23	Unused
Unused	24	Unused
Unused	25	Unused

After Installing the Hardware

Note: If you are adding hardware to an existing system, you do not need to uninstall existing Dialogic® System Software.

For a new installation, after installing the hardware proceed with the system software installation as described in the Dialogic System Software documentation. For technical specifications and product information go to: <http://www.dialogic.com/products.htm>.

Warranty and Return Information

Warranty Period

For specific warranty information for this board, refer to the Warranty section of the Products page, located at this URL: <http://www.dialogic.com/warranties/>.

Dialogic provides technical support for its products through a network of value added distributors who are trained to answer technical questions on installing and configuring Dialogic® products. If you are unsure how to contact your support channel, please call Dialogic in the United States at 973-967-6600 (9am-5pm EST) and we will assist in obtaining the appropriate support channel.

Outside the United States please refer to <http://www.dialogic.com/support/contact> to obtain local contact information. Dialogic also provides direct support via Dialogic® Pro™ Services agreements. For more details of direct support from Dialogic refer to: <http://www.dialogic.com/support/DialogicPro>.

Returning a Product

To return a board for warranty repair or any other returns, please refer to the following: <http://www.dialogic.com/support/hwfaults>.

Sales Assistance

If you have a sales question, please contact your local Sales Representative or the Regional Sales Office for your area. Address, telephone and fax numbers, are available at the Dialogic website located at: <http://www.dialogic.com/contact.htm>.

To purchase Dialogic® products, please refer to the following website to locate the appropriate supplier: <http://www.dialogic.com/purchase.htm>.

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