

Dialogic®

JCT Media Boards

- D30E1P75WCN
- D301P120WCN
- D30E1P120WIN

Quick Install Card for PCI Universal

Part Number 64-0050-02
Copyright © 2003-2007
Dialogic Corporation.
All Rights Reserved.

Dialogic®

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® JCT Media 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.

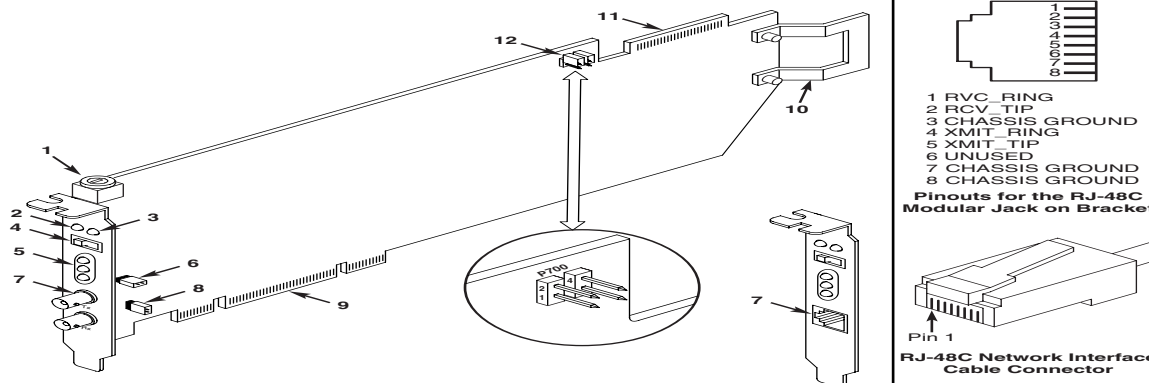
Note: Place boards in static-shielding bags when carrying boards from station to station.

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.

Configuring the Hardware

NOTE: This product allows you to use the factory default hardware settings for quick installation and operation. However, you should review the following information and select your desired options.

Physical Description



1. **SW100**—Rotary switch used to set Board Identification.
 2. **Power LED**—Indicates power status (Green).
 3. **Loopback LED**—Indicates remote loopback mode (Red).
 4. **SW500**—Slide switch used to set remote loopback mode.
 5. **Alarm/Status LEDs:**
 - Green LED**—Indicates board is powered up and receiving signal from external E-1 source.
 - Yellow LED**—Indicates loss of frame synchronization at far end external network.
 - Red LED**—Indicates loss of frame synchronization on incoming line from external network.
 6. **JP1A**—Jumper used to set grounding on TX BNC shield.
 7. **Network Connectors:**
 - BNC**—Connectors to external E-1 (75-Ohm) digital telephone network interface.
 - RJ-48C (Inset)**—Connectors to external E-1 (120-Ohm) digital telephone network interface.
 7. **JP1B**—Jumper used to set grounding on RX BNC shield.
 8. **Universal PCI Bus Edge Connector**
 9. **ISA Edge Retainer**
 10. **CT Bus Edge Connector**
 11. **P700**—Jumpers used to terminate the CT Bus.
- NOTES:**
This product is available in both 75-Ohm and 120-Ohm versions.
JP1A and JP1B are only used for 75-Ohm BNC connectors.
CT Bus signals must be terminated only on boards at each end of the CT Bus cable.

Board Identification Number

This product uses Plug and Play technology, including hardware auto-configuration for IRQ and memory address. This technology enables quick installation and operation using the factory default hardware settings.

The system software assigns board instance numbers in ascending order (beginning with 0) as it detects each board in your system. A board instance number is the identification (ID) number used by the system software to recognize the board. Each Board ID is based on the SW100 rotary switch setting. See the *Physical Description* section.

NOTE: The Board IDs automatically assigned by the system may not correspond to a physical order in the chassis.

Geographical Sequence

Leave SW100 set to Board ID 0 (default) to let the system automatically assign board instance numbers by PCI bus logical slot number. This method is not available for ISA bus boards.

NOTE: If you add or remove a board, the system may change the existing board instance (ID) numbers.

Programmable Sequence

If you change the Board ID from the factory default of 0 to any other **unique** number, the software will use that setting to identify the board.

Use a non-metallic screwdriver to turn SW100 to 1 of 16 board settings, 0–9 or A–F. You should assign sequential numbers to each Dialogic® board, starting at 1. This method is also used for all ISA bus boards.

NOTE: You should use the programmable Board ID method in a Linux environment.

Precedence in Mixed Systems

In systems where both ISA and PCI boards exist, PCI boards take precedence and are numbered before ISA boards. Also, when using both geographical and programmable assignment methods, PCI boards that use Board ID setting 0 are numbered before PCI boards that use settings 1–9 or A–F.

NOTES: After the hardware and the system software are installed in a Windows system, refer to the Dialogic® Configuration Manager (DCM) utility to retrieve the assigned board instance (ID) number(s). After the hardware and the system software are installed in a Linux system, refer to the proper configuration files to retrieve the assigned board instance (ID) number(s).

Grounding the 75-Ohm BNC Connectors

The product is shipped with jumpers installed to ground both transmit and receive sides of the BNC shields. If you want to change the grounding configuration:

1. Place the board on a static-dissipative work surface.
2. Configure the jumpers.

Direction	Ground	Jumper	Setting
Transmit	Grounded	JP1A	In
Transmit	Not Grounded	JP1A	Out
Receive	Grounded	JP1B	In
Receive	Not Grounded	JP1B	Out

CT Bus Termination

C_2 and C_4* are terminated on boards located at physical ends of bus using pins 1 and 2 of the P700 termination jumpers. This is only required for MVIP(90).

Both CT_C8_(A&B) and CT_FRAME_(A&B) are terminated on boards located at physical ends of bus using pins 3 and 4 of the P700 termination jumpers.

Shunt	Terminates
P700, Pins 1 and 2	C_2 and C_4*
P700, Pins 3 and 4	CT_FRAME_(A&B) CT_C8_(A&B)

NOTE: Only the boards at each end of the CT Bus cable must have their termination jumper clips installed.

Remote Loopback Switch (SW500)

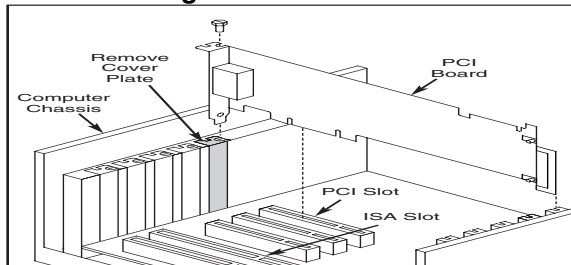
The default setting (loopback disabled) for SW500 is depicted in the *Physical Description* section. Once the firmware is downloaded, enable loopback mode to verify the network connection. This switch position overrides any board modes set by your application.

Installing the Hardware

NOTE: If you are adding additional hardware to a system, you do not need to uninstall existing system software.

1. With your computer on the 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 access 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.
5. Insert the edge connector of the board into the bus slot. Press firmly until the board is securely seated.

Installing the Universal PCI Board



6. Replace and tighten the retaining screw to secure the board firmly in the chassis slot.
7. Use the CT Bus cable to connect the board(s) you are installing to other boards in the system.
8. Replace the computer cover when finished and reconnect the power cords.
9. Turn the power to the chassis **ON**.

After Installing the Hardware

After installing the hardware, run the Dialogic® Configuration Manager (DCM) as described in the installation instructions included with the Dialogic® System Software to configure your system. For technical specifications and product information go to: <http://www.dialogic.com/products.htm>.

Warranty and Return Information

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/>.

Contacting Technical Support

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 please 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>.

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>.

All contents of this document are furnished for informational use only and are subject to change without notice and do not represent a commitment on the part of Dialogic Corporation or its subsidiaries ("Dialogic"). Reasonable effort is made to ensure the accuracy of the information contained in the document. However, Dialogic does not warrant the accuracy of this information and cannot accept responsibility for errors, inaccuracies or omissions that may be contained in this document.

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH DIALOGIC® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN A SIGNED AGREEMENT BETWEEN YOU AND DIALOGIC, DIALOGIC ASSUMES NO LIABILITY WHATSOEVER, AND DIALOGIC DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF DIALOGIC PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT OF A THIRD PARTY.

Dialogic products are not intended for use in medical, life saving, life sustaining, critical control or safety systems, or in nuclear facility applications. It is possible that the use or implementation of any one of the concepts, applications, or ideas described in this document, in marketing collateral produced by or on web pages maintained by Dialogic may infringe one or more patents or other intellectual property rights owned by third parties. Dialogic does not provide any intellectual property licenses with the sale of Dialogic products other than a license to use such product in accordance with intellectual property owned or validly licensed by Dialogic and no such licenses are provided except pursuant to a signed agreement with Dialogic. More detailed information about such intellectual property is available from Dialogic's legal department at 9800 Cavendish Blvd., 5th Floor, Montreal, Quebec, Canada H4M 2V9. Dialogic encourages all users of its products to procure all necessary intellectual property licenses required to implement any concepts or applications and does not condone or encourage any intellectual property infringement and disclaims any responsibility related thereto. These intellectual property licenses may differ from country to country and it is the responsibility of those who develop the concepts or applications to be aware of and comply with different national license requirements. Dialogic, Diva, Eicon, Eicon Networks, Eiconcard, Dialogic Pro and SIPcontrol, among others, are either registered trademarks or trademarks of Dialogic. Dialogic's trademarks may be used publicly only with permission from Dialogic. Such permission may only be granted by Dialogic's legal department at 9800 Cavendish Blvd., 5th Floor, Montreal, Quebec, Canada H4M 2V9. Any authorized use of Dialogic's trademarks will be subject to full respect of the trademark guidelines published by Dialogic from time to time and any use of Dialogic's trademarks requires proper acknowledgement. The names of actual companies and products mentioned herein are the trademarks of their respective owners.