Dialogic DMV600BTEC Media Board

Quick Install Card

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® DMV600BTEC 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.
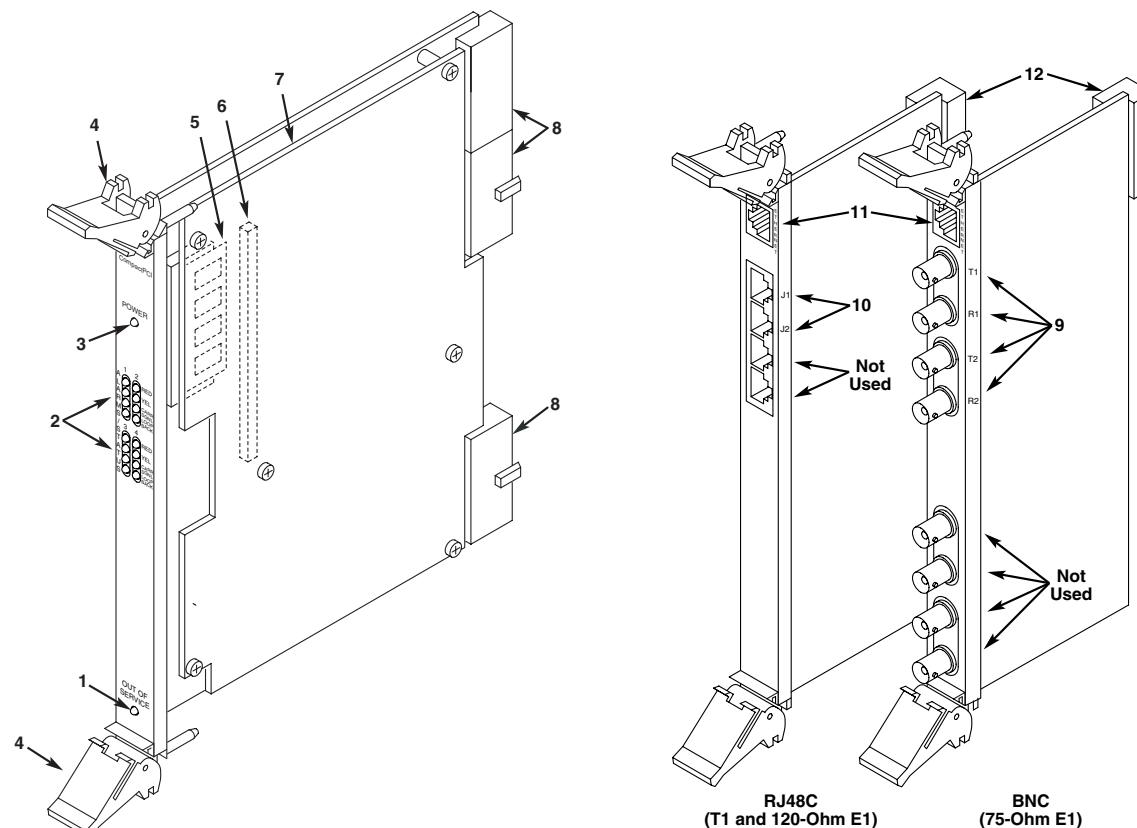3. Lay the board on the static-dissipative work surface.

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.

Installing the Hardware

Note: For a new installation, you should install the hardware before installing the system software. If you are adding boards to an existing system, there is no need to uninstall or reinstall the software.

Physical Description

CompactPCI Baseboard

1. **Out of Service LED:** Indicates board is out of service or in reset from host.
2. **Alarm/Status LEDs:** During power-up, indicate Power On Self Test (POST) status. During operation, the top two sets of LEDs indicate status and alarms for the two trunks (the bottom two sets of LEDs are unused):
   Red–Indicates loss of clock on incoming line from external network.
   Yellow–Indicates loss of frame synchronization at far end of external network.
   Carrier Signal–Indicates board is powered up and receiving signal from external T1 or E1 source.
   Loopback–Indicates the T1 or E1 network is in loopback mode.
3. **Power LED**
4. **Board Extractor** (with red locking tab)
5. **Global Memory Module**
6. **Signal Processor Daughterboard connector**
7. **Signal Processor Daughterboard**
8. **J1, J4, J5:** Board connector to CompactPCI backplane. J1 key conforms to PICMG universal hot swap.

Rear I/O Modules

9. **BNC Connectors (T1, R1, T2, R2,):** Connectors to external 75-Ohm E1 digital telephone network interfaces. (Connectors T3, R3, T4, and R4 are not used in this assembly.)
10. **RJ48C Connectors (J1, J2):** Connectors to external T1 or 120-Ohm E1 digital telephone network interfaces. (Connectors J3 and J4 are not used in this assembly.)
11. **Ethernet Connector:** The Ethernet connectors are not functional on this assembly.
12. **J5:** Rear I/O module connector to CompactPCI backplane.

The default configuration of the Rear I/O Modules provides loopback connection (signals to the board are looped back to the source) when the board is powered off and during board initialization. To disable loopback mode on either trunk, remove the shunts from the indicated jumper pins:

	RJ48C I/O module	BNC I/O module
Trunk 1	JP1 & JP2	JP100 & JP101
Trunk 2	JP3 & JP4	JP200 & JP201

CAUTION: This document provides instructions for installing the DMV600BTEC in a "cold" (power off) system, most of which also apply to live insertion or hot swap systems. It is important to note that there are additional, system-dependent considerations for live insertion. See the Administration Guide for your Dialogic® System Software release for detailed information on live insertion.
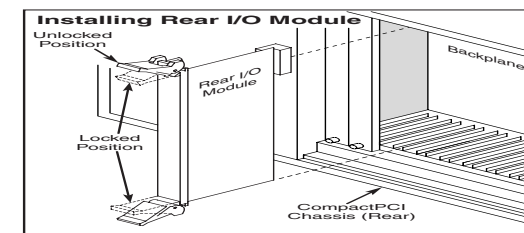
1. Work at a static-safe area. Turn the power to the chassis **OFF** if you do not have a live insertion system. If you have live insertion capability, the power to the chassis can remain **ON**.
2. Remove the chassis cover plate or open the door on both the front and back of the chassis.
3. Select an empty slot and remove the slot's access cover plates (if applicable).

Installing the Rear I/O Module

Note: If you are installing hardware in a live insertion system with the power on, you should install the rear I/O module before the baseboard.

4. Install the I/O module in the rear of the selected slot. Use the slot's board guides as you insert the board into the chassis slot. Make sure the tabs on the board extractors engage the guide holes in the chassis card cage, then lock down the board extractors until the red locking tabs snap shut.

CAUTION: CompactPCI backplane pins are easily bent. Make sure that the board connectors are mating properly with hand pressure before fully seating the board. When using the board extractors to seat the board, make sure to seat evenly.
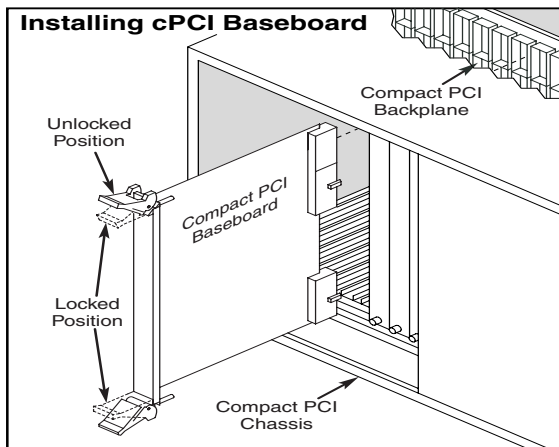

Installing the Baseboard

Note: If you are installing hardware in a live insertion system with the power on, you should install the rear I/O module before the baseboard.

5. Install the baseboard in the front of the selected slot. Use the slot's board guides as you insert the board into the chassis slot. Make sure the tabs on the board extractors engage the guide holes in the chassis card cage, then lock down the board extractors until the red locking tabs snap shut.

Note: If the power to the chassis is on when you insert the board, power is immediately applied to the board, the Out of Service LED lights briefly and then goes out, and the Power LED goes on.
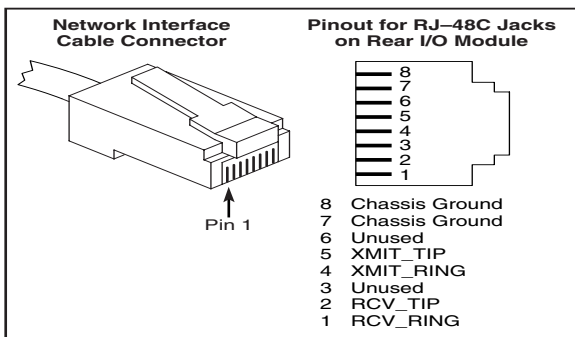
CAUTION: CompactPCI backplane pins are easily bent. Make sure that the board connectors are mating properly with hand pressure before fully seating the board. When using the board extractors to seat the board, make sure to seat evenly.

Installing cPCI Baseboard

External Connections

6. For an RJ48C (T1 or 120-Ohm E1) I/O module, connect the external digital telephone cables to the RJ-48C jacks on the board bracket. The topmost RJ-48C jack is for trunk 1 and the second jack is for trunk 2. The pinout for the RJ48C connectors is given in the following figure

7. For a BNC (75-Ohm E1) rear I/O module, connect the external digital telephone cables to the BNC connectors. The top two BNC connectors (T1 and R1) are for trunk 1, and the next two connectors (T2 and R2) are for trunk 2.

RJ48C Connector Pinout

Pin	
8	Chassis Ground
7	Chassis Ground
6	Unused
5	XMIT_TIP
4	XMIT_RING
3	Unused
2	RCV_TIP
1	RCV_RING

Completing the Installation

8. Select a new slot and repeat steps 3-7 for each board you are installing.
9. Replace the front and back cover plate or close the front and back chassis doors, as appropriate.
10. If the power to the chassis was turned **OFF** in step 1, turn the power to the chassis **ON**.

After Installing the Hardware

For a new installation, proceed with the software installation as described in the Dialogic® System Software documentation.

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

For technical specifications and product information go to: http://www.dialogic.com/products.htm.

Removing the Hardware

Exercise caution when removing boards from a CompactPCI chassis. The board extractors are equipped with red locking tabs that latch when the board is correctly positioned in the chassis. Attempting to extract a board without first releasing the locks may break the lock mechanism.
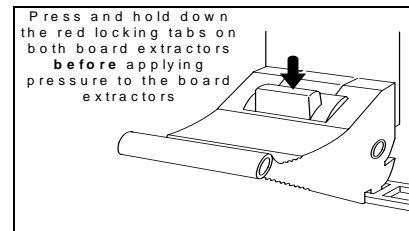
Removing the Baseboard

Before removing the baseboard, ensure that you are properly grounded. To remove the baseboard from the chassis, simultaneously press down both red locking tabs on the extractors (see the figure below), then evenly press the extractors away from the center of the board to release the board from the chassis.

CAUTION: If the red locking tabs on the extractors are not pressed before applying pressure to the extractors, there is a risk of breaking the tabs.

After removing the baseboard, immediately place it on a static-safe work surface or insert it into an anti-static container.

CompactPCI Board Extractor

Press and hold down the red locking tabs on both board extractors **before** applying pressure to the board extractors

Removing the Rear I/O Module

Note: In a live insertion (powered-on) system, do not remove and replace a rear I/O module while the baseboard is in service. Remove the front board first, then remove and replace the rear I/O module, and then reinsert the baseboard.

To remove the rear I/O module from the chassis, simultaneously press down both red locking tabs on the extractors (see the figure above) then evenly press the extractors away from the center of the module to release the module from the chassis.

CAUTION: If the red locking tabs on the extractors are not pressed before applying pressure to the extractors, there is a risk of breaking the tabs.

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/.

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 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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