

# DualSpan Series

- D/240SC-2T1 ■ DTI/480SC
- D/480SC-2T1 ■ DTI/481SC
- D/300SC-2E1 ■ DTI/600SC
- D/600SC-2E1 ■ DTI/601SC

**NOTE:** The D/300SC-2E1, D/600SC-2E1, DTI/600SC, and DTI/601SC boards are available in both 75- and 120-Ohm versions.



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## Before You Begin

### Electrostatic Discharge

#### CAUTION

All computer boards are electrostatic sensitive. Handle all static sensitive components, boards and computers at a static-safeguarded work area.

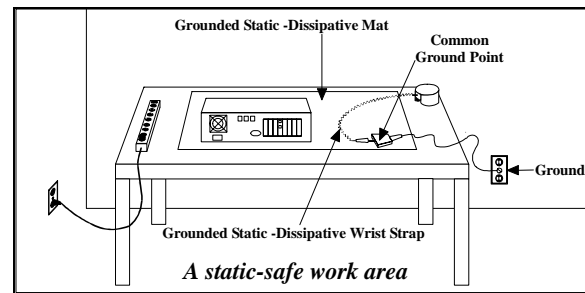
A static-safe work area consists of:

- a grounded, static-dissipative **wrist strap** that drains static charge from the person wearing the strap.
- a **work surface** covered with or composed of a grounded, static-dissipative material that drains electrical charges from conductive materials placed on the surface.

Both items ensure that static charges are drained to a safe rate and current level.

**IMPORTANT:** Always observe these practices to maintain a static-safe environment during the entire installation:

- Use the wrist strap to ground yourself to the static-safe work area.
- Remove the board from the shipping carton and static shielding at the static-safe work area.
- Lay the board on the static-dissipative work surface.



**NOTE:** All software should be installed first when running in a Windows NT or UNIX environment.

## Configuring the Hardware

### Setting the Board Identification Number (SW100)

Each DualSpan board in your system must have a unique identification number. Dialogic drivers use the board ID setting to communicate with the board.

Turn the rotary switch (SW100) to select one of 16 board ID settings: 0-9, A-F.

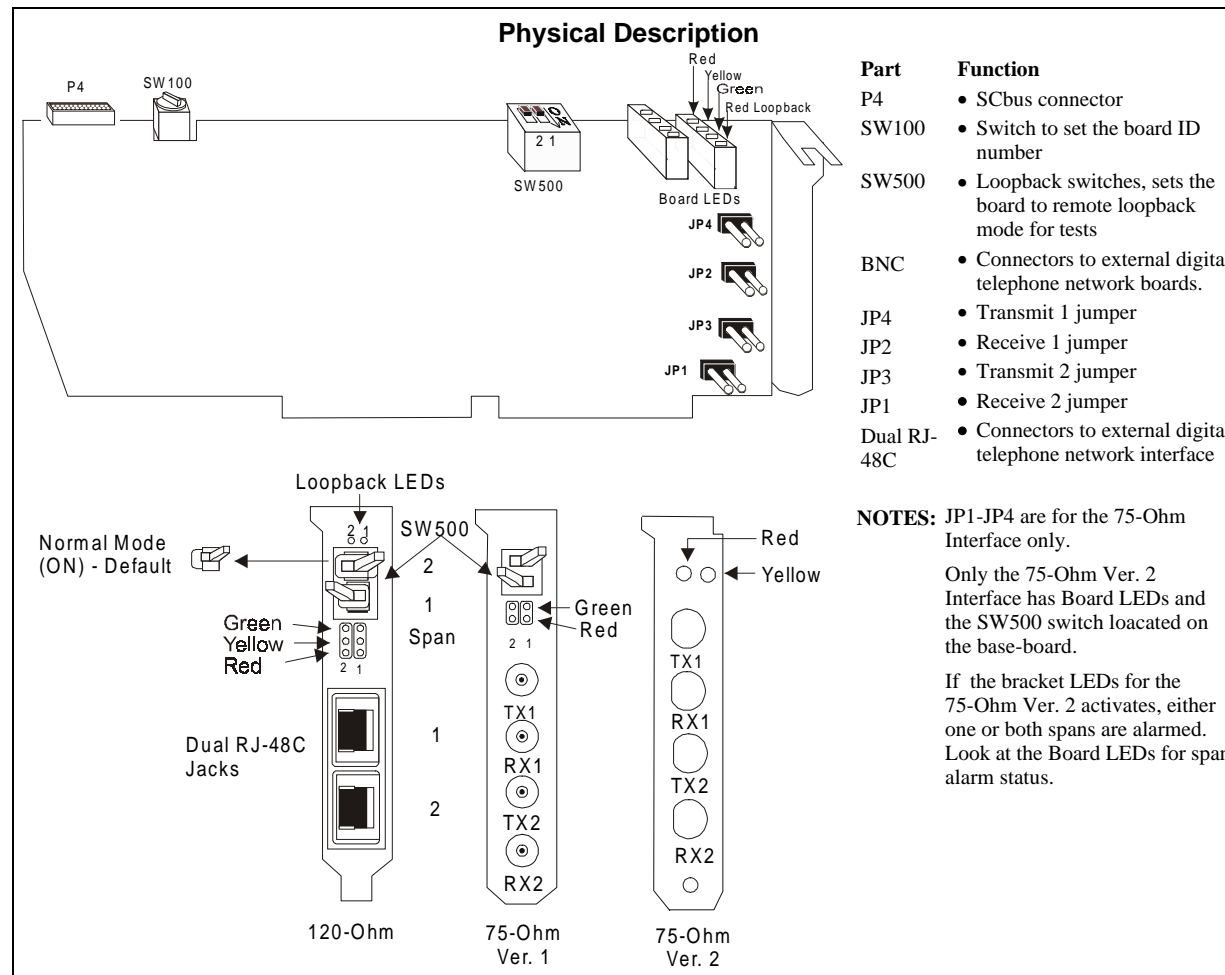
**NOTE:** More than one board with the same board ID setting will not be found by the driver software.

### Grounding the BNC Connectors (75-Ohm versions only)

DualSpan boards with an E-1 interface are shipped with jumpers installed so that both the transmit and receive sides of the BNC shields are grounded. If you want to change the grounding configuration, follow the instructions below:

1. Place the board on a static-dissipative work surface.
2. Locate jumpers JP1 to JP4.
3. Configure the jumpers according to the table below:

Jumper	Ground	Setting
JP4 (transmit 1)	grounded	in
	not grounded	out
JP2 (receive 1)	grounded	in
	not grounded	out
JP3 (transmit 2)	grounded	in
	not grounded	out
JP1 (receive 2)	grounded	in
	not grounded	out



Status Lights	Function	Explanation
Green	Indicator	Powered and receiving signal from external sources
Yellow	Alarm	Frame synchronization lost at far end of external network
Red	Alarm	Clock loss on incoming line from external network
Red Loopback	Indicator	Remote loopback function activated

### Setting the Remote Loopback Switches (SW500)

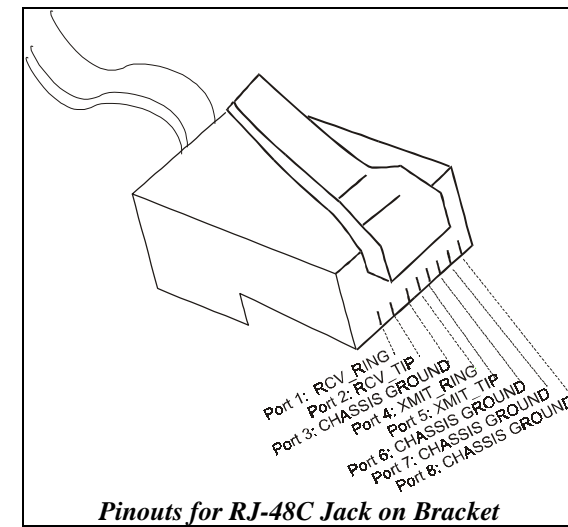
SW500 is factory set to the Up (ON) position for normal mode (default). Once the firmware is downloaded, you can set SW500 to the Down (OFF) position for remote loopback mode. Loopback mode enables you to verify the T-1 or E-1 connection. The switch position overrides any board modes set by your application.

Part	Function
P4	• SCbus connector
SW100	• Switch to set the board ID number
SW500	• Loopback switches, sets the board to remote loopback mode for tests
BNC	• Connectors to external digital telephone network boards.
JP4	• Transmit 1 jumper
JP2	• Receive 1 jumper
JP3	• Transmit 2 jumper
JP1	• Receive 2 jumper
Dual RJ-48C	• Connectors to external digital telephone network interface

**NOTES:** JP1-JP4 are for the 75-Ohm Interface only.

Only the 75-Ohm Ver. 2 Interface has Board LEDs and the SW500 switch located on the base-board.

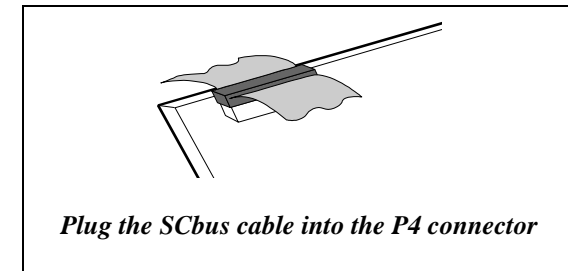
If the bracket LEDs for the 75-Ohm Ver. 2 activates, either one or both spans are alarmed. Look at the Board LEDs for span alarm status.



Pinouts for RJ-48C Jack on Bracket

## Installing the Hardware

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 cover, select an empty expansion bus slot, and remove the slot's retaining screw and access cover plate.
3. Use the slot's board guides as you insert the board edge connector into the slot. Press firmly until the board is securely seated in the slot.
4. Replace and tighten the retaining screw to secure the board.
5. Select a new slot and repeat steps 3 and 4 for each board you are installing.
6. Use the SCbus cable to connect the board you are installing to other SCbus boards in the system.
7. Replace the computer cover when finished and reconnect the power cords.



Plug the SCbus cable into the P4 connector

## After Installing the Hardware

Install the software as described in the installation instructions included with your Dialogic system software.

For technical specifications and product information, see the Dialogic *WorldView* website, <http://www.dialogic.com>, or use the Dialogic On-Line Information Retrieval System (fax-on-demand), 800-755-5599 or 973-993-1063.

### Warranty Period

The DualSpan boards come with a three year warranty. See the *Hardware Limited Warranty* information for coverage details.

### Return Material Authorization (RMA) Process

If you suspect you have a problem board, you can return the board to Dialogic for servicing.

1. Check to see if the problem is due to a mistake or oversight in the installation process.
2. Call Dialogic Technical Support at 973-993-1443 to confirm that it is a problem board.
3. While observing correct static-safe handling procedures, disconnect power, cables, and remove the board from the chassis. While the board is out, make a note of the serial number (it begins with two letters and is located on a label attached to the board).
4. Call the Dialogic RMA coordinator at 973-993-3000 x6374. Telephone lines are open from 9 a.m. to 5:30 p.m. EST. Give the board's serial number and a brief description of the problem to the RMA coordinator. The RMA coordinator will give you an RMA number and an estimated return date.
5. Repack the board, observing correct static-handling procedures. Place the board in an anti-static container and then put it in a shipping carton using appropriate packing material. Use the original shipping materials if possible. Include diagnostic printouts (for example, D40CHK) when applicable.
6. Write the RMA number on the outside of the box you are shipping (for example, RMA #2201) and send the package to the attention of the RMA number assigned.
7. Ship the board to Dialogic at the following address. Dialogic is not responsible for risk of loss or damage in transit.

Dialogic Corporation  
1515 Route 10  
Parsippany, New Jersey 07054 USA

### Regulatory Notices

#### United States

##### Federal Communications Commission (FCC)

#### FCC Part 68 Rules, Subpart § 68.218

The D/240SC-2T1, D/480SC-2T1, DTI/480SC, and DTI/481SC boards are registered with the Federal Communications Commission, which places several restrictions on their use.

1. Connection of this equipment to party lines is subject to state tariffs. Contact your state public service commission for information.
2. This equipment cannot be connected to a coin service (Central Office implemented systems).
3. This equipment complies with Part 68 of the FCC rules. On the mounting bracket (or enclosure) of this equipment is a label that contains, among other information, the FCC Registration Number.
  - If requested, the FCC Registration Number and the following information must be provided to the telephone company.
  - The FCC Registration Number: EBZUSA-20078-XD-N
  - The Universal service order code (USOC): 6.0P
  - The Facility Interface Code (FIC): 04DU9-BN/DN/1KN/1SN/1ZN
  - The USOC jack required: RJ48C jack
4. These devices are registered with the Federal Communications Commission under Part 68 as a component devices for use with other SCSA or PEB compatible equipment.

In order for FCC registration of this product to be retained, all other products used in conjunction with this product to provide your telephony function must also be FCC Part 68 registered for use with SCSA and/or PEB hosts. All Dialogic PEB and SCSA resource and network devices which are FCC registered are compatible and approved for use with each other.

Some non-Dialogic devices may be compatible and approved for use with SCSA and PEB devices. In determining if your particular component device is appropriately approved, look for the FCC Registration number on all components and ensure that the classification code "CE" or "CN" is part of that number.

**NOTE:** The non-Dialogic host or resource equipment used in conjunction with this product may bear an FCC Registration number with other than the "CE" or "CN" classification.

Classification code "CN" is for devices which provide a network interface and code "CE" is for devices which do not have a network interface.

Therefore it is recommended that only other Dialogic FCC Part 68 registered devices or other FCC Part 68 registered devices bearing the "CE" or "CN" Classification be used in providing your telephony function. If any of these components are not registered, then you are required to seek FCC Part 68 registration of the assembled equipment prior to connection to the telephone network. Part 68 registration specifies that you are required to maintain this approval and as such become responsible for the following:

- any component device added to your equipment, whether it bears component registration or not, will require that a Part 68 compliance evaluation is done and possibly that you have testing performed and make a modification filing to the FCC before that new component can be used;
  - any modification/update made by a manufacturer to any component device within your equipment, will require that a Part 68 compliance evaluation is done and possibly that you have testing performed and make a modification filing to the FCC before the new component can be used;
  - if you continue to assemble additional quantities of this compound equipment, you are required to comply with the FCC's Continuing Compliance requirements.
5. The telephone company may make changes that affect the use of this equipment. The telephone company is required to give you advance notice.
  6. If you experience any trouble with the telephone line during or after installing this equipment, disconnect the equipment from the telephone line to determine if the equipment is causing difficulties. Once the equipment has been disconnected, by either you or the telephone company, do not reconnect it until the problem has been corrected or the Dialogic equipment has been repaired by Dialogic Corporation as defined below.
  7. Any repairs to this equipment must be carried out by Dialogic Corporation or our designated agent. This stipulation is required by the FCC and applies during and after the warranty period. If you suspect the equipment is malfunctioning, check the appropriate part of the manual to see that all installation procedures have been followed correctly. If checking the installation procedures does not locate the problem, contact your field service representative or our home office. The home office address is:

Dialogic Corporation  
1515 Route 10  
Parsippany, NJ 07054 USA  
(973) 993-3000

#### Canada

##### Industry Canada CS-03:

The following must be included with the instructions to the user for Dialogic products (D/240SC-2T1, D/480SC-2T1, DTI/480SC, and DTI/481SC) which connect to the PSTN:

#### EQUIPMENT ATTACHMENT LIMITATIONS CP-01, Part 1, Section 10.1

**NOTICE:** The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**CAUTION:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

#### Industry Canada ICES-003 Issue 2:

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

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