

ProLine/2V

- Configuration
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05-0562-002



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Read Me First

⚠️ Protect Yourself from Electric Shock

To reduce the risk of electric shock:

- Switch off the power and remove power cords before opening the PC cover to install the ProLine/2V.
- Do not re-attach power cords and switch on power to the PC while the PC cover is removed.

⚠️ Protect the Board from Static Electricity

Computer boards are static-sensitive and can be damaged by touching or handling them. To prevent damage from static electricity, do the following:

- Wear a grounded, static-dissipative wrist-strap for the entire hardware installation.
- Keep the board in its anti-static container when it is not being handled.
- Work at a static-safe work area (see Figure 1).

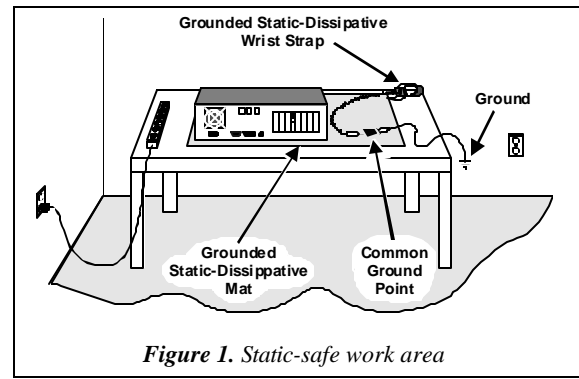


Figure 1. Static-safe work area

A static-safe work area consists of a grounded static-dissipative wrist strap and a work surface covered with or composed of a grounded static-dissipative material. The work surface drains electrical charges from conductive materials when the materials are placed on the surface. The grounded static-dissipative wrist strap drains static charge from the person wearing the strap. Both components ensure that static charges are drained at a rate and current level that are safe. Both must be used any time a person is handling any component.

Read Your Software Documentation

Your application software or Dialogic software release (hereinafter collectively called “voice software”) may have special installation or configuration instructions or requirements. Be sure to read all software documentation for any such instructions or requirements.

Installation Order

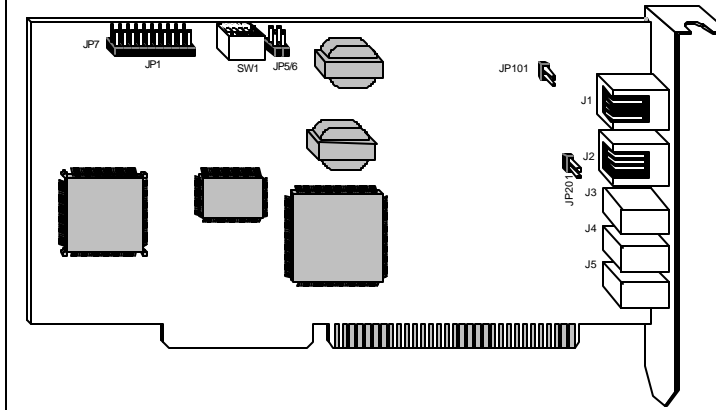
You can install the ProLine/2V and voice software in any order, but Dialogic recommends that you install the voice software first when running in a Windows® 95 or Windows NT® environment, and the ProLine/2V first in any other operating system environment.

ProLine/2V Factory Defaults

You may be able to use the factory defaults when installing the ProLine/2V board. Read through these instructions and check for possible hardware interrupt level (IRQ) and memory address conflicts between the ProLine/2V board and other software or hardware devices (for example, video card or CD ROM controller card) before installing the board.

Note: If you own a software utility that can determine what IRQs and memory addresses are in use, run it to help determine potential conflicts before installing the ProLine/2V. Some voice software includes such a software utility, or a separate board configuration utility, to help with the ProLine/2V installation and configuration.

ProLine/2V Physical Description



Part	Function
J1–J2	RJ-11 jacks for interface with PBX or Central Office (CO) lines
J3	Mini stereo jack for electret microphone (> 10K ohm; no pre-amp required)
J4	Mini stereo jack for audio line in (> 10K ohm; pre-amp required for microphone)
J5	Mini stereo jack for audio line out (600 ohm; amplifier required)
JP1	Jumper block to set interrupt level
JP5–JP6	Jumper pins to set base memory segment
JP7	Jumper pins to enable hardware interrupt circuitry for multiple boards
JP101–JP201	Jumper pins to set ring detection threshold
SW1	Switches to set the offset address and default hook switch state

Configuring the ProLine/2V

Installing More than One Voice Board (JP7)

You can install up to 16 ProLine/2V and compatible voice boards in a system. Only **one** of these boards can have the jumper installed on JP7 (see Figure 2):

- One board: Keep the jumper on JP7 installed (default).
- Multiple boards: Remove the jumper on JP7 from **all but** one board.

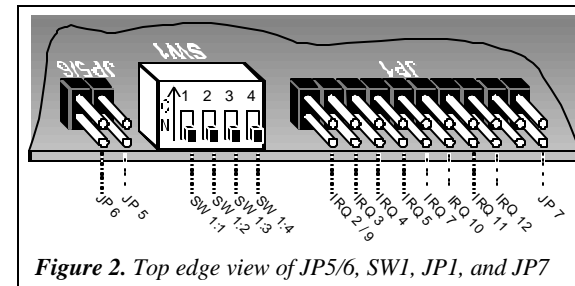


Figure 2. Top edge view of JP5/6, SW1, JP1, and JP7

Set the Hardware Interrupt Level (JP1)

The default hardware interrupt level setting (IRQ) is IRQ 9 (a jumper on JP1 pins labeled IRQ 2/9 as shown in Figure 2). Change the IRQ by moving the jumper on JP1 to another IRQ setting if IRQ 9 is already in use.

- Notes:**
- 1) Set every ProLine/2V and compatible voice board in the system to the same IRQ level.
 - 2) Although the pins for IRQ 9 are labeled IRQ 2/9, IRQ 2 is **not** available for this board.

Set the Memory Address

Each ProLine/2V and compatible voice board installed in a computer must have a unique memory address consisting of a base memory address segment and an offset address.

Set the Base Memory Address Segment (JP5 and JP6)

The default base memory address segment for the ProLine/2V is D000H (Hexadecimal). Generally, you should use the default unless there are more than eight ProLine/2V boards in your system or if other devices in your system must use the D000H segment. If you need to change the base address memory segment, set jumpers JP5 and JP6 as follows:

Base Address (Hex)	JP6 / JP5 Top Edge View	JP6	JP5
D000 (default)		removed	removed
A000 †		removed	installed
B000 †		installed	installed
C000 ‡		installed	removed

* Be aware of possible conflicts with devices that often use these segments: † video adapters; ‡ disk controller BIOS.

Set the Offset Address (SW1:1, 2, 3)

The default offset address for the ProLine/2V board is 0000H. If you need to change an offset address, set the switches 1, 2, and 3 on SW1 as follows:

Offset Address (Hex)	SW1:1, 2, 3 Top Edge View	— SW1: Switches —		
		1	2	3
0000* (default)		off	off	off
2000*		off	off	on
4000*		off	on	off
6000*		off	on	on
8000		on	off	off
A000		on	off	on
C000		on	on	off
E000		on	on	on

* Base memory address segment B000H does not support offset address settings 0000H – 6000H.

- While you can set only one ProLine/2V board to an offset, you can set multiple ProLine/2V and compatible voice boards to consecutive offsets within a base memory segment as shown in the following example.

Board	Base:Offset (Hex)	Lines
1	D000:0000	1–2
2	D000:2000	3–4
3	D000:4000	5–6
4	C000:A000	7–8
5	C000:C000	9–10

- Write the IRQ level and memory address settings below for future reference:

IRQ	Base	Offset	Lines/Board

Set the Initial Hook Switch State (SW1:4)

SW1 switch 4 sets the initial hook switch state for the ProLine/2V board. This setting is active only when the computer is powered on but the firmware has not yet been downloaded.

If the initial hook switch state is set to on-hook (default), the board presents an inbound call with a ring with no answer state. You can change the initial hook switch state to off-hook to present a busy signal instead.

Once the firmware has been downloaded, the hook switch state is set to on-hook, and may only be changed by the application controlling the board.

It is not necessary to set all ProLine/2V boards in the system to the same initial hook switch state.

Caller Hears	Hook Switch State	SW1:4 Top Edge View	Set SW1:4
Ring no answer (default)	on-hook		off
Busy	off-hook		on

Note: If the PC is not powered on, the inbound call response is ring no answer when a board receives a call.

Increasing Ring Detection behind a PBX (JP101–JP201)

If a board has problems detecting rings behind the PBX, you can lower the ring detection threshold. To lower the threshold and improve ring detection on a channel-by-channel basis, install the jumpers as follows:

Channel 1	Jumper JP101
Channel 2	Jumper JP201

Note: A lower threshold may be too sensitive for boards connected to the Central Office (CO) and cause false detection of rings.

Installing the ProLine/2V

1. Prepare a static-safe work area, turn off all power to the computer, and disconnect the computer's power cords from electrical outlets.
2. Remove the computer case.
3. Select an empty ISA expansion bus slot, and remove the slot's retaining screw and access coverplate.
4. Insert the board's edge connector into the bus slot.
5. Replace and tighten the retaining screw.

Select a new slot and repeat steps 3–5 for each board you are installing. Replace the computer case when finished.

Make the Connections

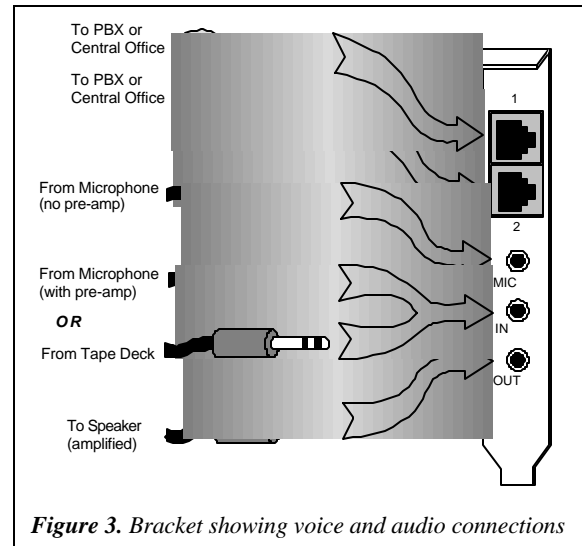


Figure 3. Bracket showing voice and audio connections

- The ProLine/2V supports a single analog voice channel per RJ-11 jack (channel 1 corresponds to J1 and channel 2 corresponds to J2). Use RJ-11 connectors and phone cable to connect each voice channel to a PBX or the CO (see Figure 3).

A standard telephone will not function when directly attached to a ProLine/2V RJ-11 jack.

- The *MIC* jack supports an electret microphone.
- The audio line *IN* jack supports a line out from a device such as a tape deck or a pre-amplified microphone.
- The *MIC* and audio line *IN* jacks share circuitry with voice channel 2. The application software controls:
 - when the *MIC* or line *IN* jacks are enabled and voice channel 2 is disabled
 - when *MIC* and line *IN* jacks are disabled and voice channel 2 is enabled
- The audio line *OUT* jack supports a line in to a device such as an amplified speaker.
- Monaural plugs can be used instead of stereo plugs for the *MIC* audio line *IN* and line *OUT* jacks.

After ProLine/2V Installation

- Run the firmware download utility that came with your voice software to download the firmware to the ProLine/2V.

- Test the ProLine/2V using diagnostic utilities that came with the voice software.
- For specifications and product information, refer to the Dialogic WorldView internet site at <http://www.dialogic.com> or the Dialogic On-Line Information Retrieval System (fax-on-demand) at 1-800-755-5599 or 1-973-993-1063

Warranty Period

The ProLine/2V board has a lifetime warranty. See the *Hardware Limited Warranty* card for coverage details.

RMA Process

If you suspect you have a problem board, you can return the board to Dialogic for servicing. The following outlines the procedures that make up the Return Material Authorization (RMA) Process.

1. Check to see if the problem is due to a mistake or oversight in the installation process. Be sure to run the diagnostic utility if you have not already done so.
2. Call Dialogic Technical Support at 1-973-993-1443 to confirm that it is a problem board.
3. Call the RMA coordinator at 1-973-993-3000 x6374. Telephone lines are open from 9 a.m. to 5:30 p.m. EST. Give the board's serial number (two letters and six digits—located on a label attached to the board) 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.
4. While observing correct static-handling procedures, disconnect power, cables, and remove the board from the chassis.
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

Regulatory Notices

United States Federal Communications Commission (FCC)

FCC Part 15 Rules, Subpart B § 15.105

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.

FCC Part 68 Rules, Subpart § 68.218

The ProLine/2V board is registered with the Federal Communications Commission, which places several restrictions on its 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 and Ringer Equivalence Number (REN) for this equipment. The FCC Registration Number is EBZUSA-65588-VM-E and the REN is 1.0B. The Facility Interface Code (FIC) is 02LS2 and the boards use USOC jacks RJ-11C or RJ-14C. There is no Service Order Code (SOC).

NOTE: The REN is used to determine the number of devices you may connect to your telephone line and still have assurance that all of those devices will ring properly when your number is called. In most, but not all areas, the sum of the RENs of all devices should not exceed five (5.0). To be certain of the number of devices you may connect to your line as determined by the RENs, call your local telephone company and request information on the maximum REN for your calling area.

If requested, the FCC Registration Number and REN must be provided to the telephone company.

4. The telephone company may make changes in its technical operation or procedures. If these changes affect the use of this equipment, the telephone company is required to give you advance notice.
5. 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 repaired by Dialogic Corporation as defined below
6. 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
(973) 993-3000

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Canadian Department of Communications CS-03: Equipment Attachment Limitations

CP-01, Part I, Section 10.1

The Canadian Department of Communications 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.

CP-01, Part I, Section 10.2

The **Load Number (LN)** associated to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100.

Dialogic model ProLine/2V has a load number of 5.

Canadian Department of Communications 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.