

**PURPOSE:**

This document defines the step-by-step procedure for installing the VolumePro 1000 board in an internally powered configuration.

**EQUIPMENT:**

Part Number	Description	Quantity
18-0175	Internal Power Adapter Cable Assembly	2

**PROCEDURE:**

1. Check the power capacity of the +5 VDC output of the computer power supply and the amount of that power used by other subsystems in the computer. Verify that at least 75 watts remains for powering the VP1000 board.

**WARNING**

Failure to supply required power may cause system instability.

2. Check the routing of the power cables emanating from the computer power supply and verify that there are two unused peripheral power connectors (the large 4-pin version, not the small 4-pin version). It is preferable, but not required, that the two connectors be on separate cables.



3. Connect one Internal Power Adapter cable (18-0175) to each of the two power connectors selected to power the VP1000.



4. Plug the VP1000 board into its designated PCI slot.
5. Verify that each of the internal power adapter cables will reach one of the two power connectors (J2 and J3) on the top rear of the of the VP1000 board. If either or both of the cables will not reach, add a standard power extension cable (available from computer accessories dealers) between the power cable and the adapter cable.
6. Plug one adapter cable into J2 and the other into J3 on the top rear of the board. Either cable can go into either connector.



7. Power up and test the system.

**NOTE**

If there is any concern about the adequacy of the power connection, measure the voltage between the outermost two pins of J2 and the voltage between the outermost two pins of J3. These can be accessed from the backside of the board as J2 and J3 are through-hole parts. The measured voltage should be greater than 4.75 VDC. This will provide a 0.25 VDC margin between the average operating voltage and the minimum input voltage for the on-board voltage regulators.