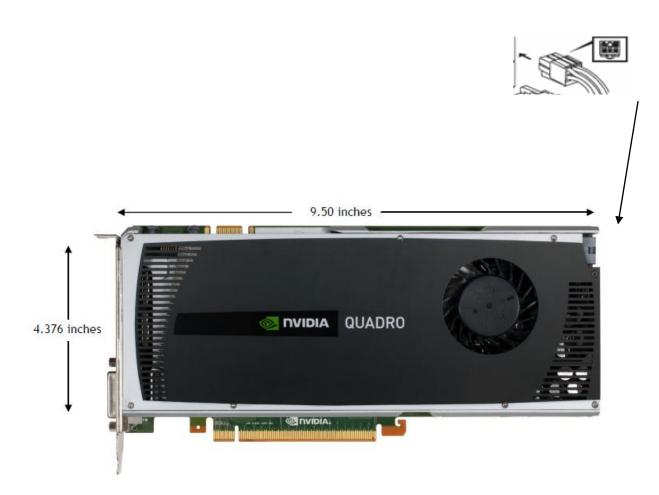# Quadro 4000 Additional Power Requirements

The Quadro 4000 graphics board is a performance optimized high-end board solution. Power is taken from the PCI Express host bus as well as a 6-pin PCI Express power connector.

Without auxiliary power provided to the Quadro 4000 graphics board a message will appear on the display asking the user to power down the system and reboot after plugging in the auxiliary PCI Express power cable. This will be followed with an LED that goes red and the graphics board will not boot.

Table 1.   Configuration with External PCIe Connector

6-Pin PCIe Power Connector	Result
Connected	Full power - LED light on the PCB is **GREEN** by default
Not connected	Message on display will alert the user to connect the auxiliary PCI Express power cable. LED light on the PCB is **RED** - graphics board will not boot to OS

POWER BY RAIL

PEX12V	PEX3V3	EX12V	Total Board Power
60.49 W	2.75 W	78.47 W	141.71 W