VME Interface Board

The VME option provides VME bus access to the SGI Origin family of systems. One of the key components of the VME option is the VME interface board. This board provides system control for the components within a VME chassis and it enables the VME option to communicate with an SGI host system.

The VME interface board is available in two sizes, 6U and 9U (see Figure 1), and it is installed in slot 1 of a customer-supplied VME chassis.

⚠ **Caution:** The installation or removal of the VME interface board must be performed by trained service personnel. Unauthorized access to the cardcage area could result in bodily harm or system damage, and could void the system warranty.

Note: In most cases, the customer-supplied VME chassis is certified and licensed by international safety agencies for use as a stand-alone unit and/or for installation in a third-party equipment rack. When you add the VME interface board to the chassis, the safety certifications for the stand-alone and rackmount configurations may not cover the new configuration. Therefore, this new configuration may need to be certified and licensed by the appropriate safety agencies.
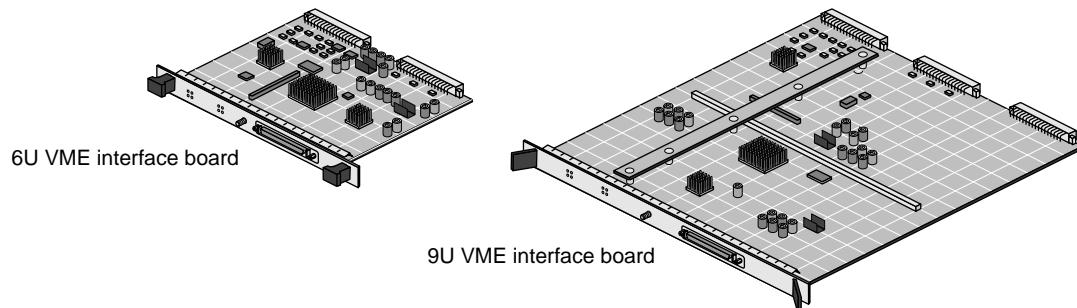
6U VME interface board

9U VME interface board

Figure 1   6U and 9U VME Interface Boards

The VME interface board has one connector, one ground lug, and eight LEDs, as shown in Figure 2. The connector attaches the VME interface board to an SGI host system via a Crosstown VME cable. The ground lug secures a ground cable to the VME interface board. Table 1 describes the LED functions.
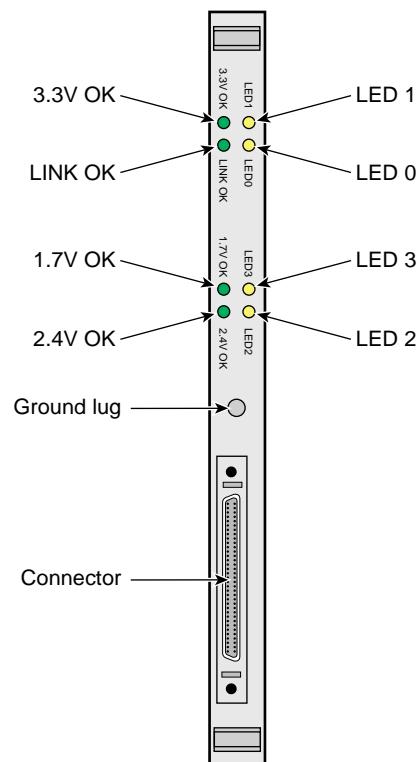

Figure 2   Front-panel Items of the VME Interface Board

Table 1   LED Functions

LED	Function
LED 0	Illuminates yellow, but is not used at this time.
LED 1	Illuminates yellow, but is not used at this time.
LED 2	Illuminates yellow, but is not used at this time.
LED 3	Illuminates yellow, but is not used at this time.
3.3 V OK	Illuminates green when the 3.3-volt power is okay. No illumination indicates no voltage or an out-of-range voltage.
LINK OK	Illuminates green when the link connection between the VME interface board and the host system is okay. No illumination or flashing indicates a connection problem.
1.7 V OK	Illuminates green when the 1.7-volt power is okay. No illumination indicates no voltage or an out-of-range voltage.
2.4 V OK	Illuminates green when the 2.4-volt power is okay. No illumination indicates no voltage or an out-of-range voltage.

The following restrictions and important notes apply to the VME option:

• Installation and initial verification of the VME option must be performed by authorized SGI trained service personnel. For more information, contact your nearest SGI representative.

• Due to conflicting cooling requirements, the VME chassis cannot be installed in an SGI rack.

• The VME interface board must be placed in slot 1 of a VME chassis.

• To ensure proper operation, the SGI host system and the VME chassis must be powered by the same AC power source so that they share a common ground.

• Each SGI host system supports a maximum of five VME option boards.