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What Are the Options When Using Third Party VXI Cards?

KEYSIGHT TECHNOLOGIES

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The options depend on whether the card is register or message-based, and if VEE is controlling the C-size frame through the VXI backplane (that is: MXI, VXLink, or an embedded controller) or over HP-IB (that is, an IEEE-488 connection to a command module).

If the card is message-based, it works fine over either the backplane or the command module; in either case you can use Direct I/O in and send the appropriate strings to control the card. (A command module simply passes them through to the card.)

If the card is register-based, it works fine if you are accessing over the backplane, since VEE Direct-I/O has an additional capability to perform register reads and writes. If you are using HP-IB and a command module, however, programming becomes complex -- VEE can't get directly to the registers and all you can do is use Direct I/O to the Command Module to perform PEEK and POKE commands. The peek-poke method will work, but is slow and susceptible to programming errors.

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