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Hot Swap VME 6U Extender Description

The VME-100 can be used in any VME bus. The circuitry designed on this board isolates all the motherboard voltages and the signals from the UUT by means of the On-Off switch or the external input, therefore eliminating the requirement for turning the system On and Off and repeated rebooting during the test and characterization process.

The VME-100 is a full size extender board with support brackets for securing the extender board to the chassis. The extender, in addition to the current limiting for the +5V, also has fuses for the +12V and -12V to protect the bus from any damages due to shorts from the Unit-Under-Test. The current limiting for the +5V is set to 6 Amp at the factory, but it can be increased or decreased by changing a resistor on the board.

Voltage margin testing of the VME boards are facilitated when using

the VME-100 extender. By removing 3 pre-assembled jumpers on this board, the system bus voltages will be isolated off and external voltages can be connected via the external inputs. All features including the +5V current limiting and +5V current measurement circuitry will still be operating in this mode.

The On-Off power circuitry keeps the Unit-Under-Test isolated from the motherboard until the +5V has reached to at least 3 Volts during the power up. This feature assures that the bus will not hang due to the Unit-Under-Test not having adequate power. This circuitry also isolates the Unit-Under-Test from the bus during the power down as soon as the +5V reaches down to 3 Volts. All the Voltages are ramped up and down during the power up and power down to assure no glitches are generated due to any sudden power cycling.

When the system power is turned off, the VME daisy chain signals are passed to the next slot, allowing the system operation to continue. On-board power-on reset also generates the system reset required for initializing the Unit-Under-Test, after each power on. On-board current to voltage circuitry is provided to allow +5V current measurement, using only a Voltmeter, at a two point terminal.

The VME-100 board requires no software to operate. Simply, plug it in and use it. The board supports the entire Address range and all modes of operation, including DMA mode. The total propagation delay, for all signals, is typically less than a nanoseconds from the bus to the Unit-Under-Test.

Features

- Swap UUT without having to turn the system power Off and On.
- External power supplies are allowed for Voltage Margin Testing of the Unit-Under-Test.
- On-board +5V current limiting and short circuit protection.
- On-board fuses to protect the system motherboard +12V and -12V traces in case of shorts from the Unit-Under-Test.
- Test points are provided for all signals for connections to a scope or a logic analyzer.
- Auxiliary P1/P2 break-out patterns on top for connections to logic analyzer or scope..
- On-board current-to-voltage circuitry allows +5V current measurement, using only a voltmeter.
- Customized bracket for securing the extender board to the chassis.

Specifications 050798

Bus:

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VME, 6U.

Input Voltage Requirement :
+5V @ 200 mA, +12V & -12V @ 50 milliampere for each voltage plus additional current needed for UUT.

Input Source:
From the system or an external supply, configurable by jumper per voltage.

Output Voltage Rating:
+5V at 6 Amps.
+12V at 1 Amp and -12V at 1 Amp.
The 6 Amp is the factory set limit. This limit can be changed by replacing a resistor on the board.

Output Voltage Drop:
40 millivolts drop for every 1 Amp drawn for +5V.
30 millivolts drop for every 1 Amp drawn for -12V.
30 millivolts drop for every 100 milliampere drawn for +12V.

Propagation Delay:
Typically, one Nanosecond from the VME bus to the Unit-Under-Test.

On-Off Control:
SPST switch on-board, or the external input, TTL or CMOS compatible.

Outputs:
JP5
+5V CURRENT +5V current draw can be measured at a two-point terminal, by a voltmeter. Each volt represents 1 Amp.

Auxiliary Signals, VME Bus:
VME bus signals are provided at PX1 and PX2.

Mechanical Dimensions:
Length 9.2 inches, 6U width.
Height 8.5 inches.

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