The Group

DNPCIXEXT-S3 / DNPCIXEXT-S5
64-bit, 66MHz Active PCI-X Extender

Features

- Active Extender Card utilizing the Tundra TSI320
- Complaint to the following specifications:
  - PCI Local Bus Specification (Revision 2.2)
  - PCI-X Addendum to PCI Local Bus Specification (Revision 1.0a).
- Universal fingers on primary connector support +5V or +3.3V, 32-bit or 64-bit PCI/PCIX
- Create 2 PCIX slots from any PCI connector
- Primary bus may be any of the following:
  - +5V PCI (32/64-bit)
  - +3.3V PCI (32/64-bit)
  - +3.3V PCIX
- Secondary bus may be any of the following:
  - +3.3V PCI (32/64-bit)
  - +3.3V PCIX
  - +5V PCI (32/64-bit)
  - S3 stuffing option:
  - +3.3V PCI (32/64-bit)
  - -5 stuffing option:
  - +5V PCI (32/64-bit)
- Primary PCI/PCIX Frequency:
  - PCIX – TBD-TBD
  - PCI – 0-66MHz
- Independent, socketed oscillator for secondary clock
- Secondary clock can be slowed for emulation
- 10A, +3.3V on-board power supply for secondary bus
- +3.3V not needed (not used) on primary bus.
- Clearly labeled test points for all PCI/PCIX signals
- LED's provide quick system status
  - +5V
  - +3.3V (primary)
  - +3.3V (secondary)
  - +12V, -12V
  - Secondary bus clock PLL LOCK
  - Primary Bus Mode
  - Secondary Bus Mode
  - Secondary Bus Frequency
  - PCI/PCIX Activity (4 LED's)
  - Secondary Bus Frequency
  - PCI/PCIX Activity (4 LED's)

Description

The DNPCIXEXT-S3/5 is an extender card designed to aid in the debug and test of PCI and PCIX-based circuit boards. This extender can be plugged into any known PCI/PCI-X slot – +3.3V or +5V, 32-bit or 64-bit, PCI or PCIX. This is an active extender card—meaning that a Tundra Tsi320™ Dual-Mode PCI-to-PCI Bus Bridge is used to isolate the Primary PCI/PCI-X bus from the two secondary PCI/PCI-X bus slots. A single slot can contain up to two plug-in PCI/PCI-X cards. The primary PCI frequency can range from 0 to 66.66MHz for PCI and TBD-to-TBD if PCIX. The frequency of the secondary PCI/PCI-X bus is independent of the primary frequency, and is user-selectable via jumpers and a socketed oscillator. The secondary bus frequency may be configured as slow as TBD – idea for ASIC emulation on products from Cadence, Mentor, The DINI Group, et al. The DNPCIXEXT-S3 can be used to create two PCIX slots from any PCI slot.
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