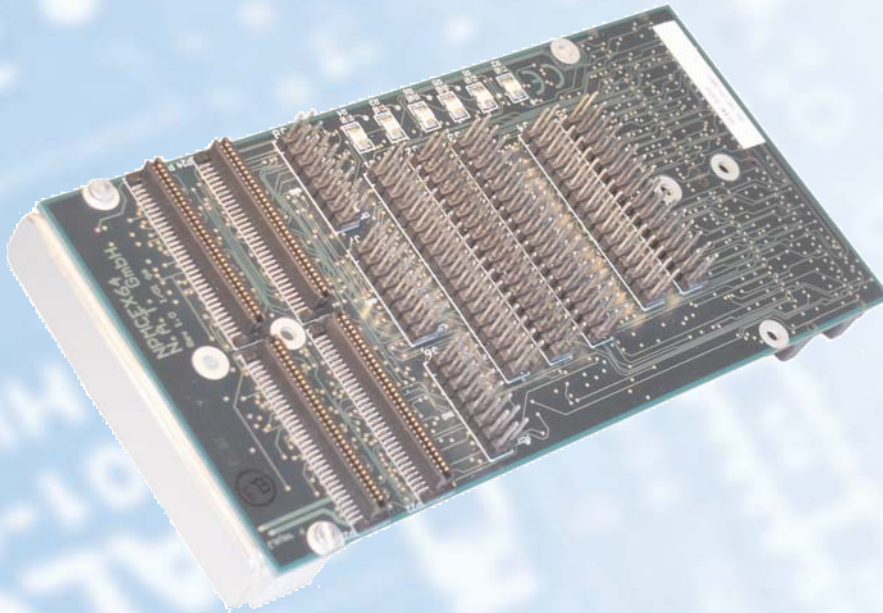# General Purpose PMC-Extender

NPMC-EXT64

The NPMC-EXT64 is a passive 64 bit PMC extender module intended for use with a PMC slot on any VME, CompactPCI, or other carrier board. It eases debugging of PMC modules by enabling the user to access the module under test from both sides as well as to install debug port cables. For measurement purposes the NCPCI-EXT64 allows access to all PCI and I/O bus signals.

The NPMC-EXT64 is targeted at any VME, CompactPCI, or any other kind of system used to test and debug PMC module technology.

Overview

The NPMC-EXT64 is a passive 64 bit extender module, just providing two PMC connector sets. One is used to connect to the carrier board and the second is dedicated to receive the PMC module under test. All PCI signals of the unit under test are terminated using Shottky diodes.

The NPMC-EXT64 provides several male header connectors carrying all PCI bus signals and PMC I/O signals routed between the two sets of PMC connectors for access by measuring equipment.

The signals on these connectors are grouped by eight. One row of these double-row header connectors carries the signals, the other row is grounded.

These header connectors may be easily connected to a logic analyzer probe, as they do directly fit into the probes of a Tektronix TLA logic analyzer.

The board also provides several LEDS and test points for the power supply lines and ground.

PCI Interface

66MHz, 64-bit, termination Shottky diodes on all PCI signals

I/O signals

All 64 I/O signals

Power Consumption

Current drawn from +3.3V, +5V, +12V, -12V,V(I/O) : less than 10mA each.
+3.3V, +5V, V(I/O), and GND connected to separate power planes

LEDs

All power supply lines drive signaling LEDs.

Environmental

 -40°C to +85°C (operating and storage)
Relative Humidity: 5% to 90% (non-condensing)

Standard Compliance

PCI Rev. 2.2
IEEE P1386.1 Draft 2.4a