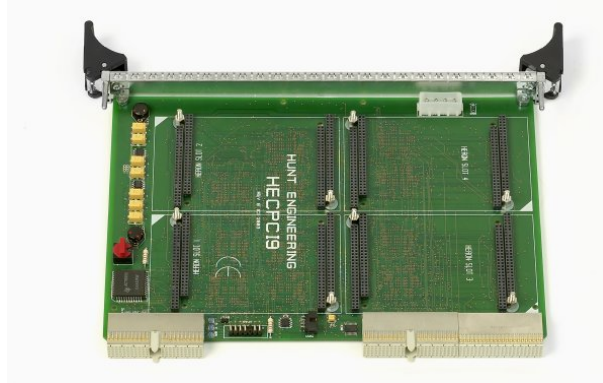


‘one of the many tools we have to help us build your system solution’



HECPCI9 Compact PCI HERON module carrier card

- High performance 32 bit 33Mhz PCI bus interface
- Four HERON module sites
- Fifth non-HERON module for implementing inter-board connections without using the PCI bus
- HEART communications system provides “Virtual FIFO” connections
- PCI "master mode" (PCI DMA) support
- JTAG header to connect JTAG emulator system to a DSP
- Fully supported by the HUNT ENGINEERING API software for Windows 95/98/ME/NT/2000 Linux and RTOS32

The HECPCI9 is 6U Compact PCI plug in card that has four 3.3V 100Mhz HERON module sites. This allows almost any combination of modules to be chosen from the HERON range of processing and I/O nodes.

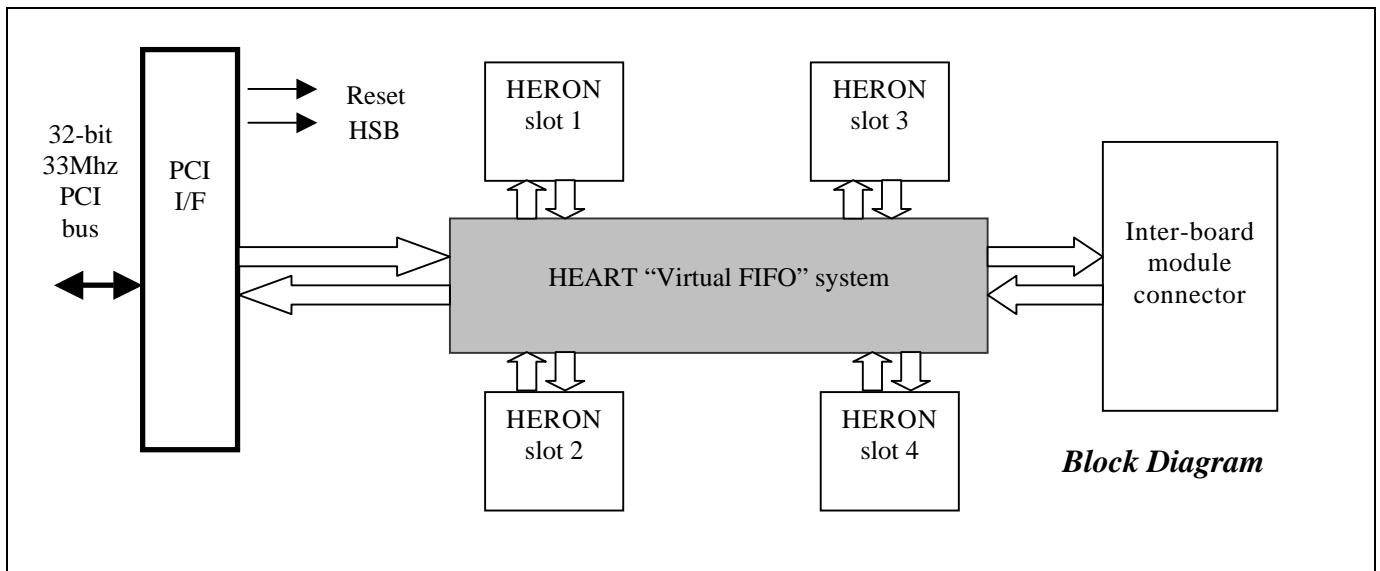
The HECPCI9 uses the HEART communications system developed by HUNT ENGINEERING specifically to allow software configuration of Virtual FIFO connections between the modules. It has been specifically designed for real time systems – that is systems where a guaranteed bandwidth is available.

Each of the modules has 6 input FIFO connections, and another 6 output FIFO connections that can be routed by configuration software to modules on this or other HEART based boards.

The PCI bus node, and the inter-board fifth (non-HERON) module have a connection to the HEART system that is identical to the HERON modules, so they also have 6 input FIFOs and 6 output FIFOs.

The HECPCI9 enjoys full support of the HUNT ENGINEERING API software, which provides a consistent software interface to all HUNT ENGINEERING host boards, from all supported HOST operating systems.

This API allows the support of the Heron Serial Bus (HSB) and the HUNT ENGINEERING server/loader for booting and communicating with the modules via the FIFO connections.



Technical Specification

Processor :
None

Memory:
None

Host Bus:
32 bit 33Mhz PCI rev 2.1

Maximum Dimensions:
233.35mm by 160mm overall, plus standard CompactPCI front panel

Power requirements:
5V Max: 4.0A
Typ: 2.7A
12V 0A

Host Interface performance:
Host machine and operating system dependent up to 100 Mbytes/second.

FIFO speed:
60 to 100Mhz FIFO clock.
max 400 Mbytes/second

HERON SLOTS:
5V tolerant 3.3V HERON slots
Supports 32 bit HERON modules and legacy 16 bit GDIO modules

Software

The HECPCI9 is fully supported by the HUNT ENGINEERING API, Server / Loader and Code Composer

Applications

Application areas are numerous and include all of the traditional Parallel processing and DSP applications.

e.g.
Image processing
SONAR/RADAR
High energy physics
Data acquisition

Related Products

HERON4-C6201, DSP module
HERON4-C6701, DSP module
HERON-FPGA modules
HERON-IO modules
GDIO modules that provide FIFO clock in the correct range.
Contact factory for latest

Ordering Information

HECPCI9

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