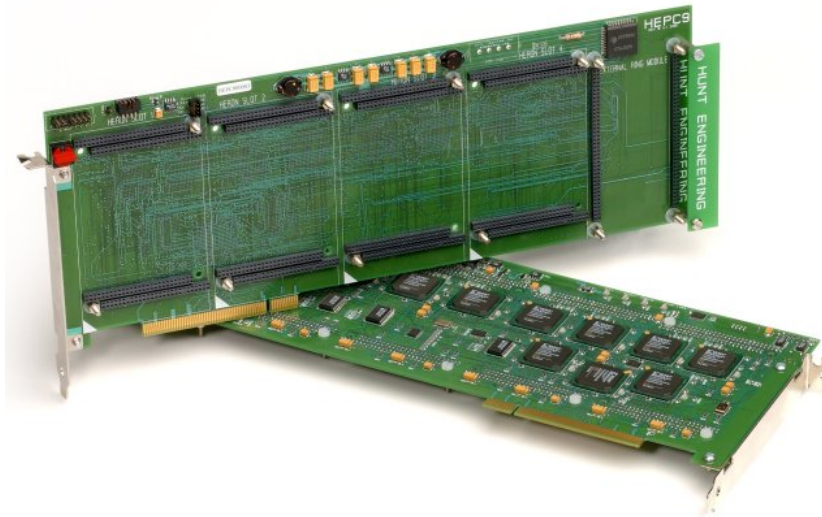


**‘one of the many tools we have to help us build your system solution’**



### ***HEPC9 PCI HERON 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 HEPC9 is a full-length desktop 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.

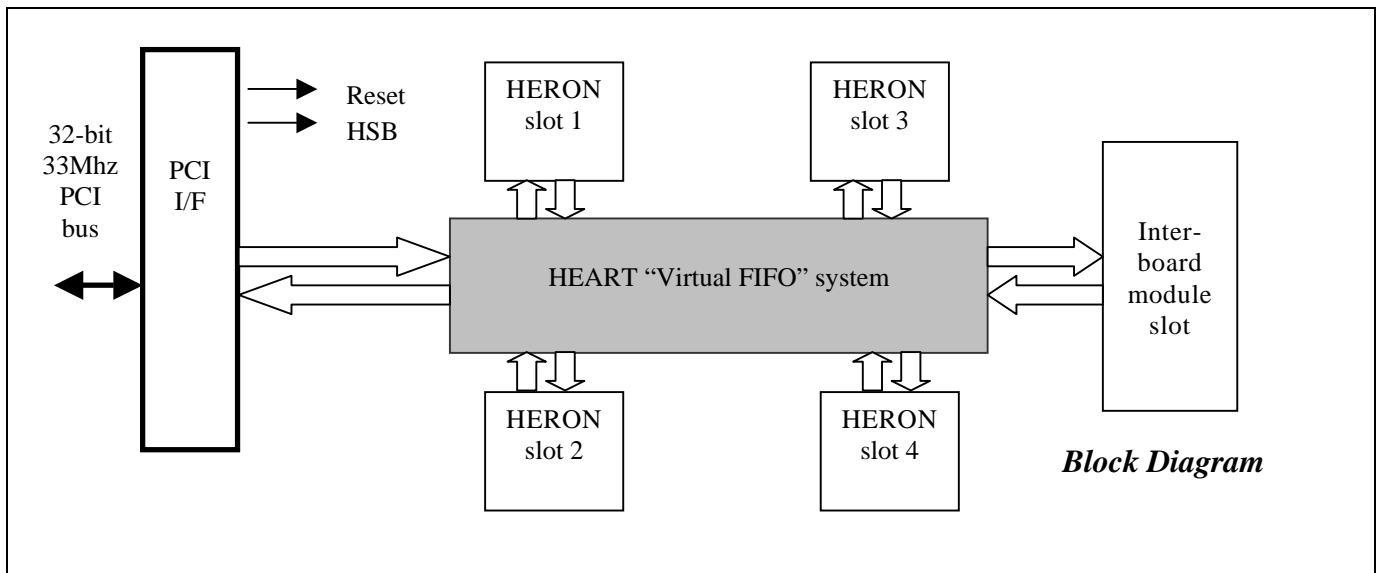
The HEPC9 uses the HEART communications system developed by HUNT ENGINEERING specifically to allow software configuration of Virtual FIFO connections between the modules. It has been specifically designed for real time systems – that is systems where a guaranteed bandwidth is available.

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 HEPC9 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:**  
4.8 inches x 13 inches

**Power requirements:**  
5V Max: 2.4A  
Typ: 0.6A  
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 HEPC9 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

HEPC9

HUNT ENGINEERING acknowledges all Trademarks used in this document .  
This document does not form part of a contract, HUNT ENGINEERING reserves the right to change product specifications without notice and to refuse to supply any item detailed on this data sheet  
E&OE.

Distributor details: