

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



HERON2-C6203 processing node

- High performance 300Mhz TMS320C6203 16 bit fixed point DSP module.
- Conforms to the published HERON specification.
- 32Mbytes Synchronous DRAM running at 150Mhz.
- 2Mbytes FLASH ROM for booting and NV storage.
- Access to the HERON carrier FIFOS
- 4 bit digital outputs, 4 bit digital inputs available on connector.
- 3 McBSP ‘C6000 serial ports available on connector.
- Fully supported by the HUNT ENGINEERING server/loader and Code Composer.

The HERON2 is a size 1 HERON module. This module specification provides for FIFO communications between modules, and also for accessing of registers or peripherals on the HERON module carrier board.

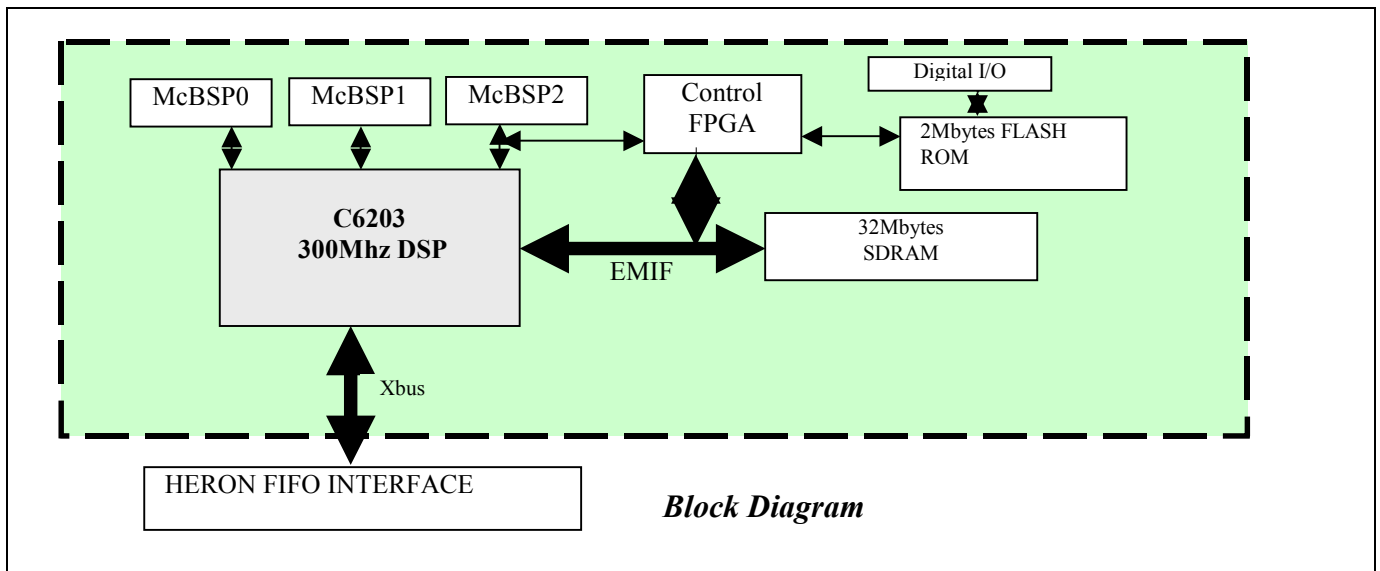
While it is intended for use on a HUNT ENGINEERING HERON module carrier card, it is ideal for OEMs wishing to use the power of the C6203 without having the worry of BGA assembly, provision of multiple low voltage power supplies, or the use of fast synchronous memories. The HERON module specification is available from www.hunteng.co.uk.

The 2400MIPs fixed point processor, running at 300Mhz is coupled with synchronous memory on the module to provide the highest performance fixed point DSP processing module available today.

The inclusion of Digital I/Os directly controlled by the processor, and the Multi-Channel Buffered Serial Ports (McBSP) on connectors of the module allows extra flexibility.

The processor first boots from the FLASH ROM of the module, a boot loader provided by HUNT ENGINEERING. This starts the boot process from one of the FIFO channels of the Carrier card. Most of this FLASH ROM is available to the user for Non Volatile storage of data, or for replacing the HUNT ENGINEERING boot loader with direct booting of the user’s code.

The HERON2 enjoys full support of the HUNT ENGINEERING server/loader software, which is a booting mechanism in a multi-processor environment. It also supports Code Composer for the integrated development and debug environment via the JTAG scan path, and the HERON Serial Bus (HSB)



Technical Specification

Processor:

C6203 @ 300Mhz

Memory:

32Mbytes SDRAM
2Mbytes FLASH ROM

Host Bus:

HERON interface

Maximum Dimensions:

4.0inches x 2.5 inches

Power requirements:

5V Max: 2.2A
Typ: 0.8A
12V 0A

I/O:

4 bit Digital Inputs
4 bit Digital outputs
3 McBSPs

FIFO speed:

Max theoretical 300 Mbytes/second

Software

The HERON2 is fully supported by the HUNT ENGINEERING 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

HEPC9, PCI module carrier
HERON4-C6701, DSP module
HERON-FPGA modules
HERON-IO modules
GDIO modules
Contact factory for latest

Ordering Information

HERON2

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