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Compact High Performance Processing Solution

High performance processing often comes at a heavy cost of high power consumption and the related problems heat dissipation and the associate size and mass of heat-sinks. Enterpoint's Hollybush2 offers a high performance solution without heat-sinks. Using FPGA embedded microprocessors technology, and customisable FPGA based hardware engines, conventional and DSP functions can be achieved without a large power budget.

Hollybush2 is based on a Xilinx™ Spartan™-3A DSP XC3SD3400A FPGA. Supporting the FPGA processor are two banks of DD3 memory and 32 MB of Flash memory. The board also has USB, Ethernet and SATA controllers. PS2, RS232 and RS485 interfaces are also supported.

Hollybush2 is based on the popular PC104-Plus format giving both ISA and PCI style connections to other PC104 or PCI104 boards. Hollybush2 can act as a master in either of these buses or can be configured as a slave only co-processor board. A unique feature is that either, or both, of these buses can be configured as a custom interface/s allowing higher bandwidth, or lower latency, for application specific add-on modules. These features also facilitate creating complex and modular processing matrix arrays using multiple Hollybush2 boards to form an array.

Hollybush2 can also be used as a standalone board running from a single 5V DC input. An optional wide range DC-DC power supply module will also be shortly available allowing the board to operate in aircraft, automotive, shipping and rail applications.

'The Hollybush2 board offers a versatile solution to industrial and military processing requirements. The small size, low mass, and low power requirements allow this board to operate in many environments where others can't or won't' explains John Adair, technical director at Enterpoint. 'Having the ability to customise the standard functions of this board to meet an individual application's needs is a very powerful tool for providing a solution to a DSP or control processing problem'.

Development versions of HollyBush2 are available now. Application specific versions of the board will be available in January 2009. Supporting products are schedule for release in the first quarter of 2009. For further information, please contact boardsales@enterpoint.co.uk

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Contact information:

John Adair – Technical Director
T: 01684 585262
E: boardsales@enterpoint.co.uk
www.enterpoint.co.uk



Enterpoint Limited
Unit 4, Malvern Hills Science Park, Geraldine Road, Malvern, Worcs WR14 3SZ
www.enterpoint.co.uk