

FreeForm/PCI-104

FPGA for Reconfigurable Computing

FreeForm/PCI-104

Features

- Based on Xilinx's Virtex-5 FPGA - 3,000,000 logic gates
- PCI-104 form factor - 32-Bit/33MHz
- Designed for embedded processing using MicroBlaze™
- 8MB Flash for embedded code storage
- 128MB DDR2-400 memory
- External 5V power connection for stand alone usage
- 2 x 10/100 Ethernet with modular jacks
- 2 x RS-485 serial interface
- 64 single ended or 32 LVDS general purpose I/O
- Industrial temperature range



Specifications

Programmable FPGA	Xilinx multi-platform Virtex-5
Input Clock	100 MHz
Memory	8MB Flash, 128MB DDR2-400
Gates	3,000,000 logic gates
User I/O	64 single ended signals or 32 LVDS pairs
Serial	2 x RS-485
Ethernet	2 x 10Base-T, 100Base-TX
Bus	PCI-104 or stand alone
Environmental	Operating Temperature (standard): 0° C to 70° C (32° F to 158° F) Industrial Temperature: -40° C to 85° C (-40° F to 185° F) Humidity: 95% non-condensing
Power Requirements	+3.3 V DC and +5 V DC (+/- 5%) <i>Note - power requirements may vary by application</i>
Dimensions	PC/104-Plus 2.2 compliant PCI-104 1.0 compliant
Connectors	Two RJ-45 modular jacks (Ethernet) Two 2x5 0.100" headers (serial) One 2x40 0.050 x 0.100" header (general I/O) One 1x6 0.100" header (flash programming)
Warranty and Support	Lifetime warranty and free technical support

FreeForm/PCI-104 is a flexible reconfigurable board that combines a user programmable FPGA with a 32-Bit, 33MHz PCI-104 interface. The advantages of PCI-104's high bandwidth along with the versatile FPGA architecture allows users to create a high speed data interface and control solution that is uniquely suited to each individual application.

Based on Xilinx's Virtex-5, Connect Tech's FreeForm/PCI-104 is highly versatile and provides a powerful platform for system development. Ideal for real-time data acquisition, high performance signal processing, avionics, autonomous vehicles and software defined radio, FreeForm/PCI-104 is perfect for embedded systems designs when used along with an embedded host processor.

Use Connect Tech's engineering services for FPGA design and software/driver development. FreeForm/PCI-104 includes a lifetime warranty and free technical support.



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