

Network Security Board

PRODUCT DESCRIPTION

The Network Security Board is used to port the TCP Offload Engine RTL onto two FPGAs. This board is based on two Xilinx Virtex-5 FPGAs. The board is used for hardware acceleration in commercial network security application.

KEY FEATURES

- Full-size PCI Express form factor
- x8 lane Gen1 PCI Express
- Two Virtex-5 FPGA sites
- Four Gigabit Ethernet interfaces
- x4 lane RocketIO links
- RoHS compliant

SPECIFICATIONS

FPGAs

Any of the following FPGAs can be used to populate the two FPGA sites on the board

- Xilinx Virtex-5 LX110T
- Xilinx Virtex-5 LX220T
- Xilinx Virtex-5 LX330T

Interfaces

- Gigabit Ethernet
- x8 lane PCI Express, interface speed 2.5 GHz
- x4 lane RocketIO links between FPGAs
- I2C interface
- Serial EEPROM
- RS232 interface for debug purposes
- MDIO/MDC interface
- JTAG interface

Software / IP

- Working test host device drivers
- Image downloading utilities
- Test firmwares and softwares

Additional Information

- 20 Mb SRAM
- 3 Gb DDR-II SDRAMs
- FPGA images build for test/diagnostic & verification purposes

MECHANICAL

- Full size PCIe commercial add-on card
- Air-cooled
- PCB : FR4 material, 14 Layers

POWER INPUT

- Power input is through PCIe edge connector: All PCIe lanes require two types of power supply +12V and +3.3V with 3rd on +3.3V Aux power rail
- Alternate power input through HDD connector

ENVIRONMENTAL

- Temperature range : To be used in controlled temperature environment

PART NUMBER(S)

CB10Q0	Network Security Board
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