Soliton®
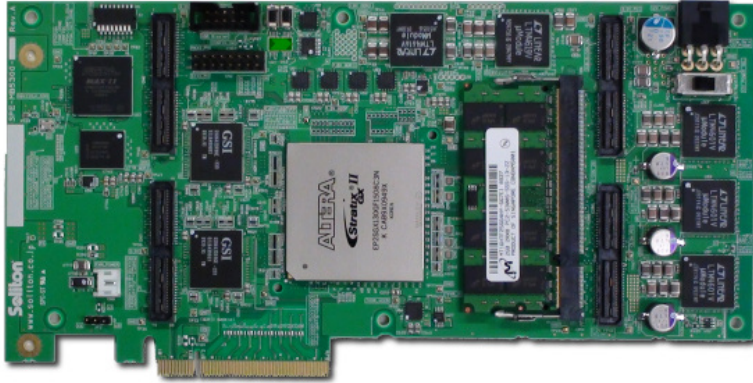
High speed data processing engine

EXpresso G2

EXpresso series products

EXpresso G4
EXpresso FPGA
● EXpresso G2
EXpresso

OUTLINE

This board is a high speed hardware accelerator for image data processing and NGN (Next Generation Network) with a state-of art FPGA chip. It is possible that many kinds of algorithm for 3D big image data processing, semi-conductor inspection, medical image processing, signal processing application and so on are implemented in the FPGA.

SPECIFICATION

FPGA

● Stratix II GX EP2SGX130
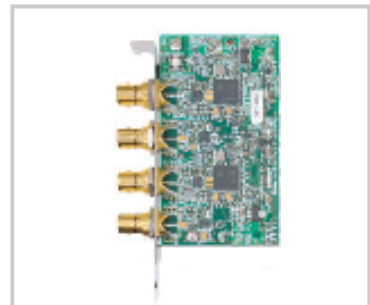
Memory configuration

● DDDR2 SDRAM memory 2G bytes SO-DIMM 1 bank
● QDRII SRAM memory 18M bytes 2 banks

Interface

● Host PC interface
  PCI Express x8

● CameraLink interface card (OPTION)
  Base/Medium/Full configuration: 1 channel
  Base configuration: 2 channels
  Base configuration: 4 channels
  [Interface specification]
  - Many kinds of trigger signal input
    for example: A-Phase, B-Phase and Z-Phase
  - Encoder logic, timer logic
  - 4-bit input, 2-bit output PIO (200KHz)
  - Isolation by photo-coupler

● HD-SDI interface card (OPTION)
  HD-SDI hi-vision image input x 2
  HD-SDI loop-back output x 2

CameraLink (OPTION)
＊daughter card

HD-SDI (OPTION)
*daughter card

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