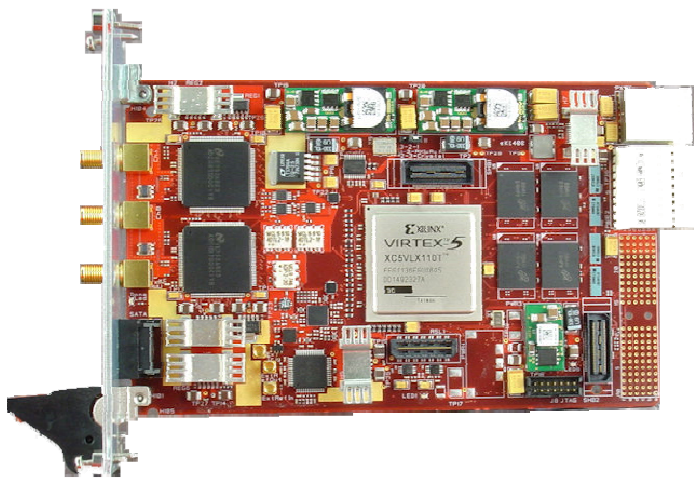


SMT702

Dual 3GSPS, 8-bit ADC PXI Express



- Dual **3GSPS**, 8-bit ADC
- Virtex-5 **LX110T** FPGA
- 1GB **DDR2** SDRAM
- Dual **SATA** interfaces
- Hybrid **PXI** express
- Size-**3U** compact form factor

Overview >>>>

The SMT702 FPGA and dual 8-bit 3GSPS ADC Hybrid PXI express board is designed for the most demanding data acquisition applications.

Combined with the fastest Virtex-5 LX110T FPGA, the SMT702 is the best solution for signal intelligence, software defined radio, satellite communications and radar systems and applications.

The FPGA processing resources can be used to implement complex FFT algorithms, digital down converters and filtering functions in real time.

The reconfigurable, flexible and scalable PXI Express series is complemented by further hardware and software solutions by Sundance.

The SMT702 is recommended to be used in the NI-PXIe 1062Q chassis.

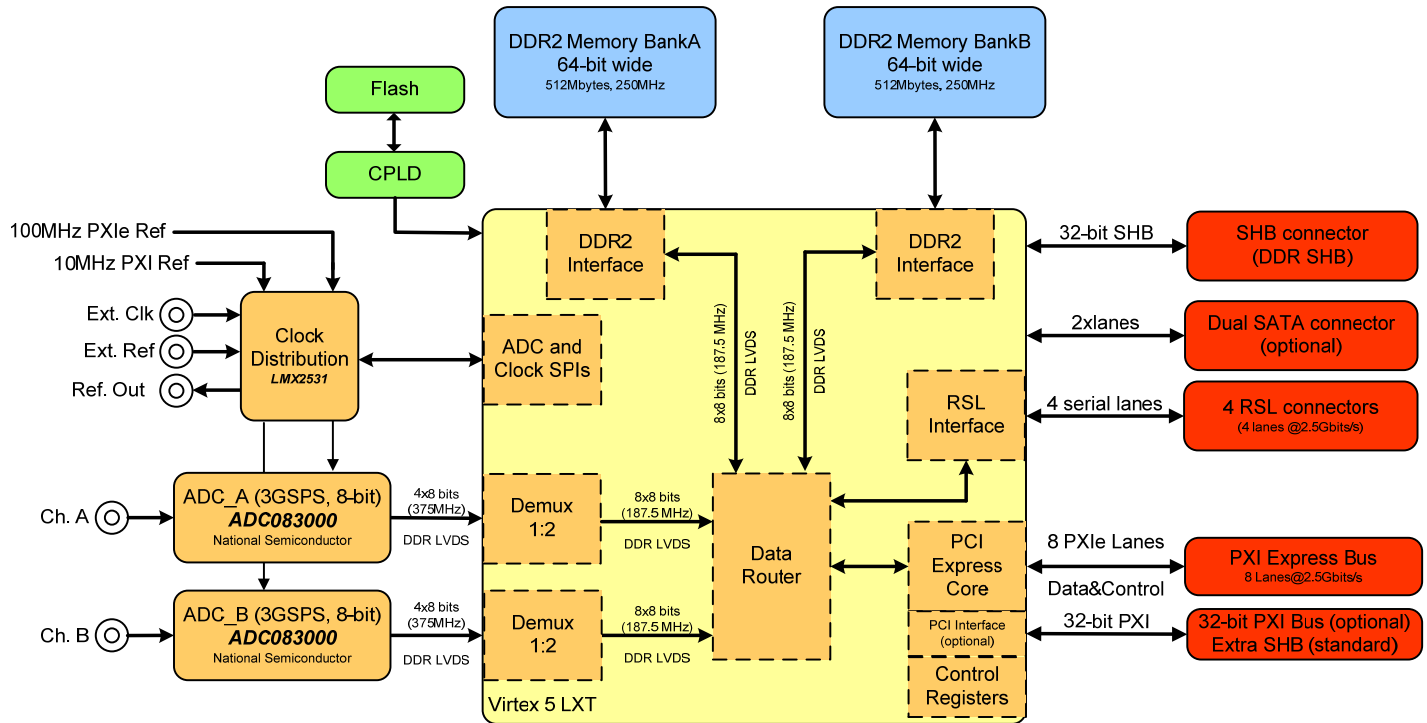
Features

- Fastest Xilinx Virtex™-5 LX110T-3 FPGA
- 2 banks 512MB DDR2 SDRAM (64-bit)
- PXI Express Hybrid 3U Peripheral module
- Two 8-bit 3GSPS A/D converters
- Sampling rate from 1 to 3GSPS
- 3GHz input signal bandwidth
- Two 32 single-ended I/O signals to SHB
- 4 serial lanes @ 2.5Gbps to RSL connector
- Supported by 3L Diamond FPGA tools

Performances

- SFDR: 49.56dBm
- SNR: 43.16dB
- ENOB: 6.85 bits
- Power consumption: 34W max.

Functional block diagram



Ordering information

SMT702: XC5VLX110T-3, PXI Express Peripheral Module

SMT702-PXI32: XC5VLX110T-3, PXI Express Hybrid Peripheral Module (PXI P1 connector)

SMT702-SA: XC5VLX110T-3, Standalone (ext. power cable and access via SHB, RSL or SATA)

Optional: SATA FPGA IP core from Sundance

Distributor information

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