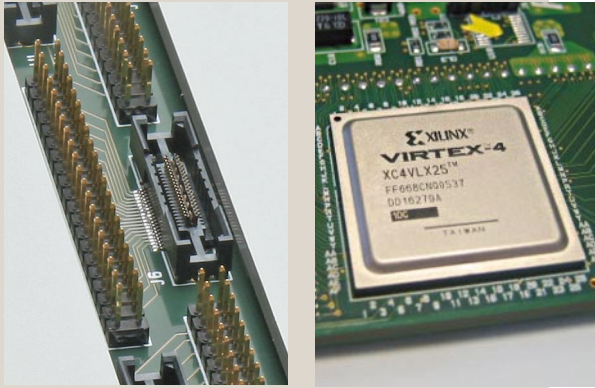




DEEP TRACES STORAGE & DEBUGGING SOLUTION



The External Memory for FPGA Internal Signals Capture & Storage

OVERVIEW

TemStorage™ is the solution for storing large amount of data coming from a FPGA you are debugging.

Delivering up to 10 Gbits/sec data bandwidth and 1 GB of internal memory, TemStorage™ allows to capture and to store extended test sequences and to export them to DiaLite™ Instrumentation through a USB interface for viewing and analysis. Bus larger than 200 signals can be stored with a frequency up to 100 MHz. Perfectly integrated into DiaLite™ environment, TemStorage™ is seen as a dedicated IP and can be connected to other accessible Debug IPs.

TemStorage™ is seen as a memory device IP, just like any other IP in your DiaLite™ project. But you can also customize and tune the TemStorage™ parameters with available library to match your memory and instrumentation needs.

TemStorage™ also allows a non intrusive mode where the test IP is embedded into TemStorage™ and not into the FPGA under test. Only internal signals are probed from the user design to TemStorage™.

FEATURES

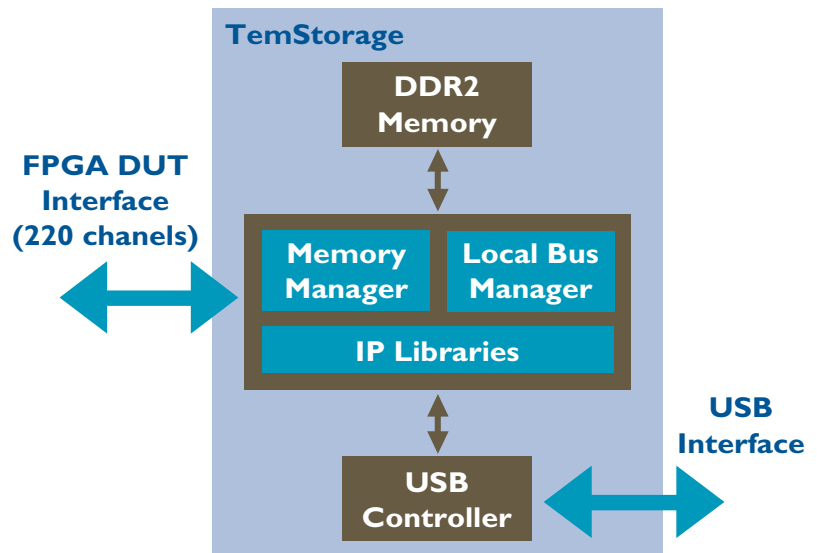
- ◆ Large local Memory size : 1 GB equivalent to 4 MB per acquisition channel
- ◆ High data bandwidth : up to 10 Gbits/sec on total channels
- ◆ Extended Pin-out (220 data bits) for interfacing instrumented design
- ◆ 100 MHz on 128 channels State Analysis
- ◆ USB 2.0 compatible

BENEFITS

- ◆ Store large amount of data outside your DUT and free your FPGA resources
- ◆ Capture and acquire synchronous traces on 220 channels
- ◆ Work in non intrusive mode by routing only signal probes from your FPGA design to TemStorage™
- ◆ Manage TemStorage™ device as easily as any other IP you use in your DiaLite project

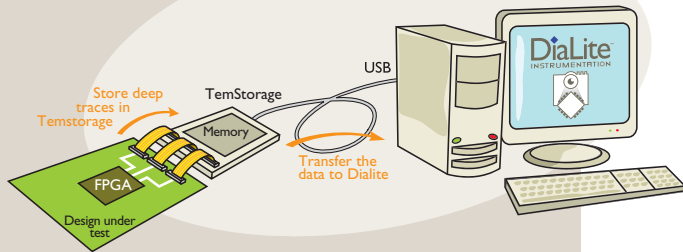


ARCHITECTURE



TYPICAL APPLICATIONS

Store FPGAs internal signals traces



SPECIFICATIONS

CONFIGURATION

USB 2.0 compatible

USB Cable : Shielded, USB 2.0 compatible, 1meter

Power Supply Vcc : 5V

IO Voltage : Adjustable from 1.3 to 3.3V (by step of 0.1 V)

IO Current : 8 mA (Source/Sink)

Operating (Temp/humidity) : 0°C to 50°C/5 to 90%

Storage (Temp/humidity) : -5°C to 70°C/0 to 95%

CONNECTIVITY

PC side : 1 USB 2.0 Cable Connector with Type A slot

UUT side : 7 x Mictor 38 Female connectors

7 x HE40 Male connectors

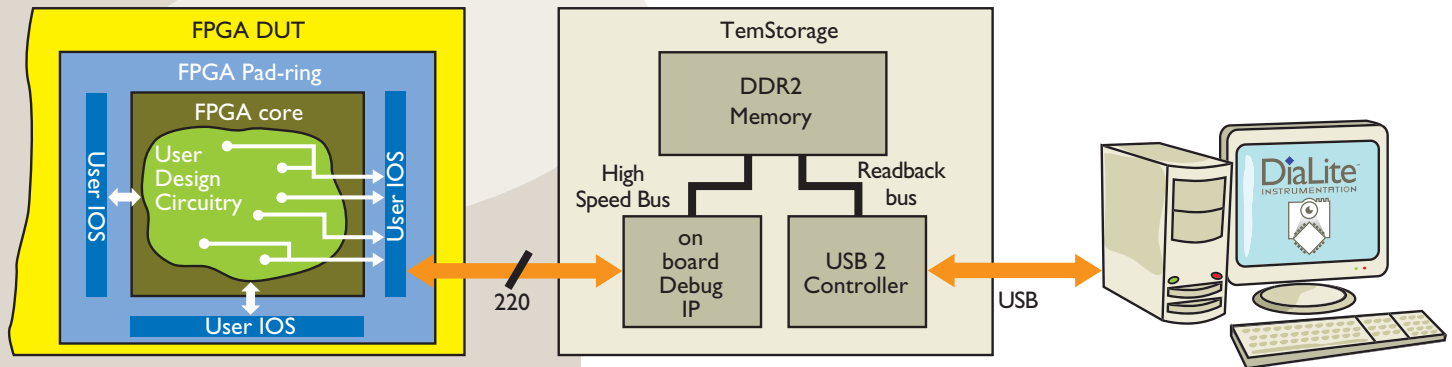
SOFTWARE ENVIRONMENT

Operating Systems : Windows 2000 / Windows XP / Linux

Traces stored into TemStorage™ can be viewed into DiaLite™ instrumentation software

TemStorage™ is delivered without DiaLite™. For more information on DiaLite™, please visit the following link : <http://temento.com/solutions/fpga.php>

Work with a Non-Intrusive Debugging Configuration



STANDARD CABLE REFERENCE

◆ **MIC-38-CABLE-MM-6** : Mictor 38 Male / Mictor 38 Male cable, Length : 152.40 mm

ORDERING INFORMATION

◆ **TEMSTORAGE™** : TEM-STO (includes the USB2.0 cable)

Options/Spare Parts :

◆ **TEMTAG™ USB A-B** : TEM-USB/C

1 meter USB2.0 shielded cable slot A / slot B

◆ **TEMCABLE™ EXP402** : TEM-EXP402

0.5 meter HE40 Female / HE40 Female

For pricing and availability, please contact our sales network
E-mail : sales@temento.com

For technical info, please contact our customer service
E-mail : support@temento.com

For more info on Temento Systems solutions, please visit our web site <http://www.temento.com/>

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