

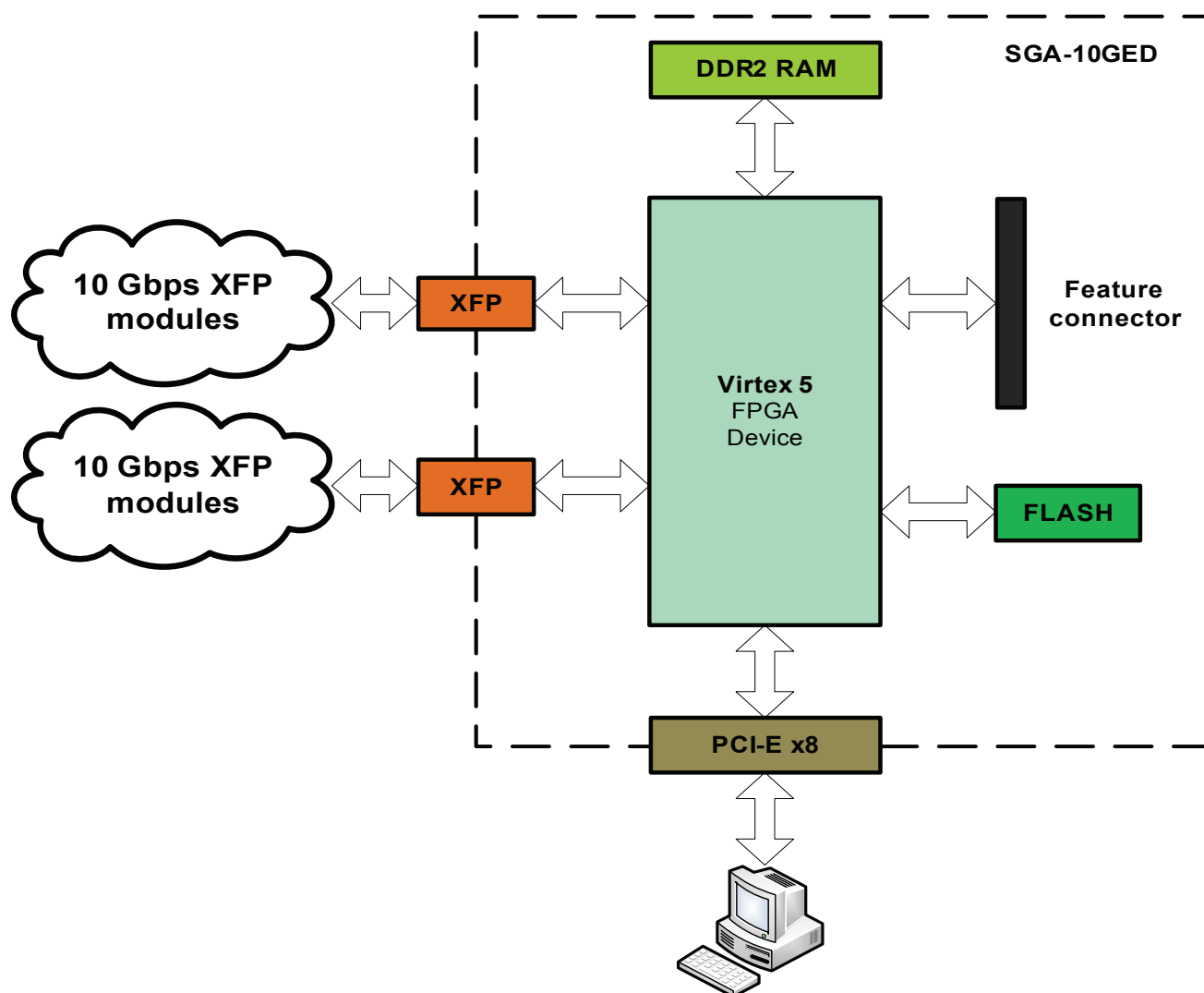
AITIA International

SGA-10GED Interface card

'GED It Done

AITIA's solution for handling up-to 10 Gbps NGN infrastructure is the 10GED interface card. Compared to competitors, AITIA's leading-edge card offers ultra high speed data processing and transfer rates supported by its Virtex 5 FPGA core chip, its x8 PCI-E slot and two XFP slots. The 10GED represents the top quality, performance and reliability of network interface cards in AITIA's supply. Numerous features sample applications make implementation easy and convenient. Independent of the realized functions the SGA-10GED provides no frame loss of any network traffic it has to deal with. With this card users do not have to make compromises, there is no trade-off between data processing rate and frame loss or any other measures of performance.

Architecture of SGA-10GED card



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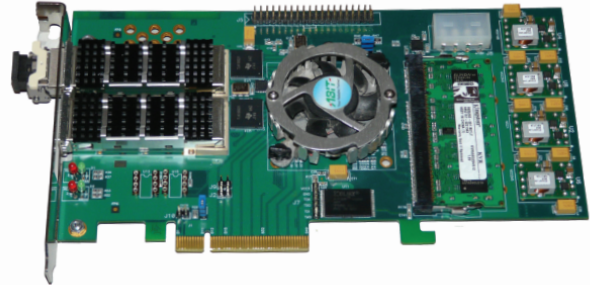
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Technological Description - Lords of the Boards

Built-in FPGA components:

- 1 PCI Express Endpoint Controller
- 4 Tri-mode (10/100/1000) Ethernet Media Access Controller (MAC)
- 2 Internal Configuration Access Ports (ICAP)



Card components:

- PCI Express endpoint connector with 100 MHz clock reference driving x1, x4 and x8 gigabit lanes at 2.5 Gbps each
- Dual XFPs with 156.25 MHz clock reference to support user-installed 10 Gbps Ethernet modules
- 200-pin, small-outline dual in-line DDR2 SODIMM memory module receptacle accommodating 128MB, 256MB, or 512 MB modules

Applications

Besides the firmware AITIA also offers sample applications to help developers create their own codes.

- Ultra high speed (up-to 10 Gbps) Ethernet network traffic analysis
- Network testing, maintenance
- Firewall, routing functions
- Traffic generator

Features

- 64 bit timestamp with 4 or 8 nsec resolution
- Lossless packet capture limited only by host PC's speed and resources
- Header-only capture: configurable protocol layer depth decoded by hardware on the fly
- Fully PCAP/WINPCAP compliant interface (ie. Wireshark integration)
- Parameterized line speed capable packet/flow generator for active measurements



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