



SGA-10GEQ

Network Accelerator Card for High Performance Workloads

OVERVIEW

AITIA SGA-10GEQ Network accelerator cards are designed to meet the constantly evolving challenges of the ICT field. There are several tasks in Infocommunication field, which cannot be accurately completed with a regular processing architecture.

These tasks include the accurate time-stamping of network packets, hardware filtering of high through-put packets, traffic encryption. For these workloads we offer our hardware solution the SGA-10GEQ, FPGA based PCI Express accelerator card. The 10GEQ is the accumulation of decades of work and development experience in the telecommunication field.

The SGA-10GEQ can be customized with various proprietary IP cores to completely customize the card, our solutions for this product include:

- 1/10/40 GbE PCS/PMA+MAC modules
- PCIe DMA engines and Linux, Windows drivers
- Packet filtering engine
- Firewall, DDoS detector
- Full stack Packet decoders and parsers for various line rates

HARDWARE

- Kintex7 160T/325T FPGA
- 4x SFP+ interface 1/10GbE with lightpipes
- Feature connector
- Unique device numbering and tracking
- DDR3 memory



HARDWARE FOR ANY WORKLOAD

- Nanosecond timestamping
- Time synchronization
- Traffic Profiling and Analysis
- 5G Core Network Monitoring
- Surveillance
- Low Latency Networking
- Traffic filtering
- Intrusion detection