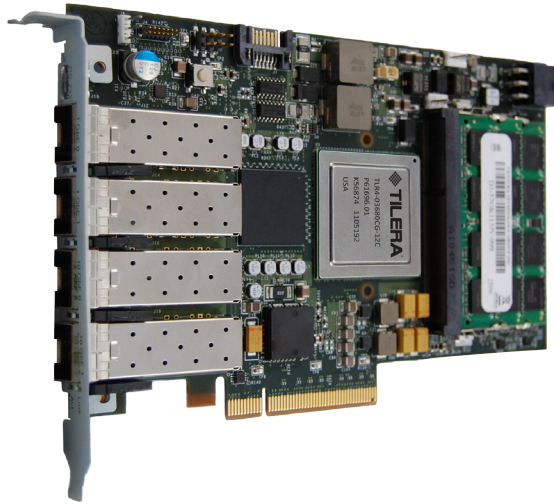


TILEncore-Gx36 Development Platform

The TILEncore-Gx36™ PCIe card is a very high-performance, high density PCIe platform that is ideally suited for evaluating and developing applications for the TILE-Gx family of manycore processors. The massive compute of the TILE-Gx™ processor is complimented with 40 Gbps of Ethernet I/O, enabling both network endpoint or “bump in the wire” configurations.

Powerful Computing Platform

The 36-core TILE-Gx8036™ processor brings over 40 GHz of compute to bear on the most demanding applications. The processor is supported by up to 8 GBytes of DDR3 memory and an on-board SATA disc controller allows connecting large amounts of rotating or solid-state storage. It is typically installed into a host x86 desktop or rackmount PC, or alternatively it can be configured to operate in a standalone mode without the use of its PCIe edge connector.



Flexible I/O

The rear plate includes four high-speed Ethernet ports (SFP/SFP+) that can each be configured for 1 or 10 Gbps operation. In addition, a USB 2.0 port is included for debug and management purposes. An 8-lane PCIe Gen2 edge connector interfaces to the host system, offering up to 32 Gbps of peak throughput.

Use-Case Examples

- Platform for Gx software development
- Evaluation system to execute performance benchmarks
- 4x 10G intelligent offload Network Interface Card (NIC) for quick hardware deployment
- PCIe-based accelerator card for compute-intensive offloads

TILEncore-Gx36 Block Diagram

