Abstract

Third Generation IO (3GIO) will serve as a general purpose I/O interconnects for a wide variety of future computing platforms. Key PCI attributes, such as its usage model and software interfaces are maintained whereas its bandwidth-limiting, parallel bus implementation is replaced by a long-life, fully-serial interface. A split-transaction protocol is implemented with attributed packets that are prioritized and optimally delivered to their target. The 3GIO definition...
will comprehend a variety of form factors to support smooth integration with PCI and to enable new system form factors. 3GIO will provide industry leading performance and price/performance.

**Reference**

- PCI Express System Architecture - Ravi Budruk, Don Anderson, Tom Shanley
- PCI Express® 2.0 Base Specification Revision 0.9
- HyperTransport™ System Architecture - Don Anderson, Jay Trodden
- RapidIO™ Interconnect Specification, Rev. 2.1
- Creating a Third Generation I/O Interconnect - Ajay V Bhatt, Intel Corporation.

**Index Terms**

Computer Science          Wireless

**Key words**

PCI               3GIO

PCI-X