

NVMe IP core

Directly connect PCIe SSD without external memory!!

32G bps
 Gen3 x 4 Lane

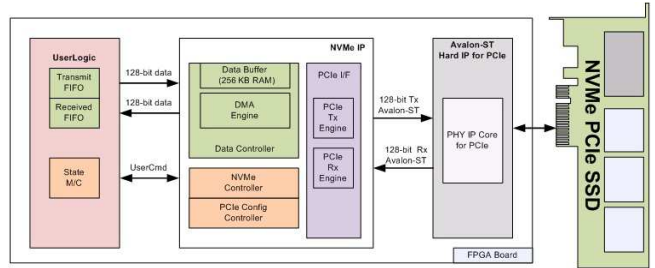


Evaluation on Intel® Arria® 10 SX FPGA Development Kit with Intel® NVMe PCIe SSD

NVMe IP core interfaces Ultra high-speed PCIe SSD without CPU and external memory. It is the best solution for applications which require ultra high-speed performance with compact system. The IP core license includes the reference design for Intel FPGA boards to shorten development time and reduce the cost.

Free evaluation sof files for Intel FPGA boards are available. You can evaluate IP core performance before purchasing.

Block diagram



Features

- Implement application layer to access PCIe SSD without CPU and external memory
- Support PCIe Gen3, theoretical upper limit 4GB/sec
- Small resource, the best solution for building a compact system
- FAT32 access without CPU * with optional FAT32-IP
- Free evaluation before purchasing

Reference Designs are available for practical applications



2ch RAID

Easy to apply for high-end products such as ultra high-speed data recorder

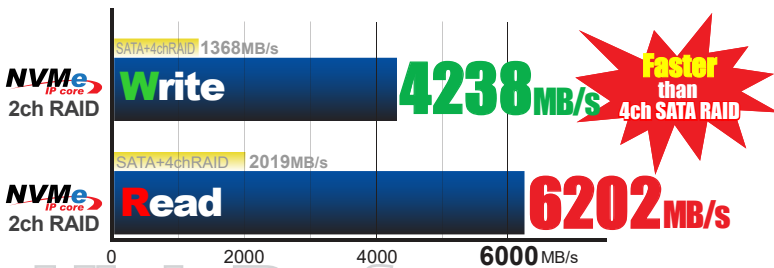


Linux driver

Suitable for high-speed data recording and stand-alone data analysis on SoC

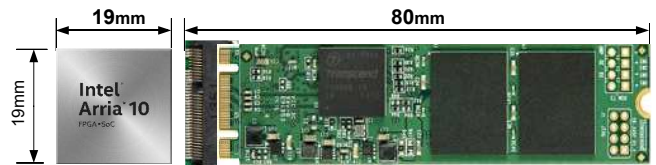
Performance / Application

Able to build Gen3 PCIe SSD 2ch RAID system!!



* SATA IP with Plextor PX-256M5S 4pcs
 * NVMe IP with Samsung 960Pro 2pcs

The best solution for Compact Ultra High-speed storage system!!



Arria® 10 SX(UBGA484)
 NVMe IP + user logic

M.2 SSD
 for data storage

System space image by 484pin UBGA package FPGA with M.2 SSD

Product Line up

IP core	Description
NVMe-IP-A10SX	1 project Netlist License for Arria® 10 SX PCIe Gen3
NVMe-IP-A10GX	1 project Netlist License for Arria® 10 GX PCIe Gen3
NVMe-IP-A5GX	1 project Netlist License for Arria® V GX
NVMe-IP-FAT32-A	FAT32 file system for NVMe-IP. Purchase with NVMe-IP core

Please ask us about Multi-License, Evaluation License and Maintenance support License.
 For more detail and technical information on our web site http://www.dgway.com/NVMe-IP_A_E.html

Accessories for evaluation

AB16-PCIeXOVER	PCIe Crossover Adapter board for NVMe IP evaluation
AB17-M2FMC	M.2-FMC adapter board for NVMe-IP evaluation Able to connect 2 NVMe SSDs. *SSD is not included.

YouTube Designgateway IP core 検索
 IP core Evaluation Demo are available on youtube

