

PCI-Express Device Driver for Windows / Linux

Product Overview

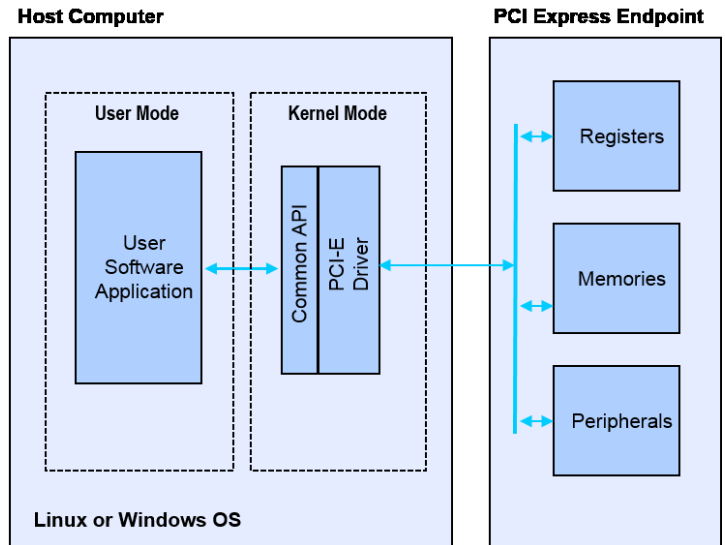
The PCI-Express Driver from Smartlogic is an application independent proven device driver solution to give easy access to PCI Express endpoints. This product is optimized for the Smartlogic PCI Express IP Core suite but not limited to and can be obtained separately. A comprehensive platform independent advanced programming interface (API) ensures the same interface on Linux and Windows Operating Systems. This product is ideally suited for customers that do not want to build up own driver know how but want to rely on a proven solution.

Driver-Features

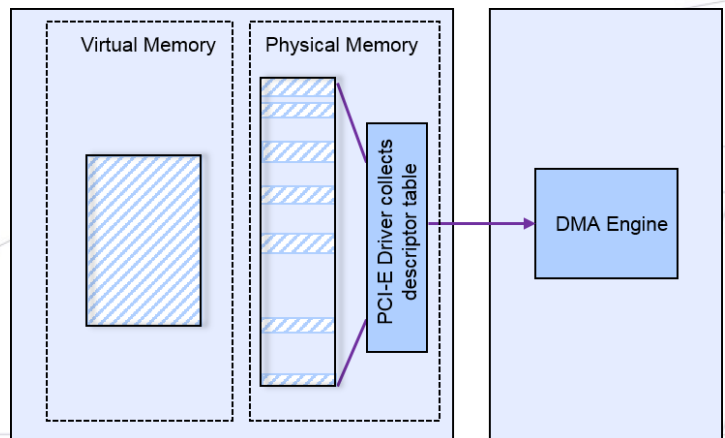
- Open and Close the PCIe Device
- Read and Write Data accesses to the endpoint with 32 or 64-Bit data width
- Write Burst Mode, for sending data to the endpoint with maximum data throughput.
- DMA Memory allocation
- Scatter/Gather DMA Support (in conjunction with the Smartlogic IP Cores)
- Interrupt servicing, calling of user functions in case an interrupt from the PCI Express Device is received.
- Command Line Interface (CLI) to allow communication from DOS Batchfiles, Shell or TCL Scripts (and others).
- Application independent generic Driver
- Supported OS : Linux (32/64) or Win 7 and Win 10

Deliverables

- Source Code (Linux / Windows) or object form (Windows only)
- Comprehensive User Guide
- Reference Design with Source Code
- Technical support



Easy communication with Registers, Memories and Peripherals



Advanced Memory Management

Evaluation

This Device Driver can be evaluated in compiled form on Window 7-64 Bit in conjunction with the evaluation of our DMA IP Cores on a PCIe FPGA Demoboard.

Request a free evaluation: ip@smartlogic.de

Contact