

# Product Brief

Acceleration  
FPGA



## Intel® Open FPGA Stack

### Intel® FPGA Acceleration Platform Solutions with new Intel® Open FPGA Stack (Intel® OFS)



Customization



Faster Time to Deployment



Portability



Ease of Deployment



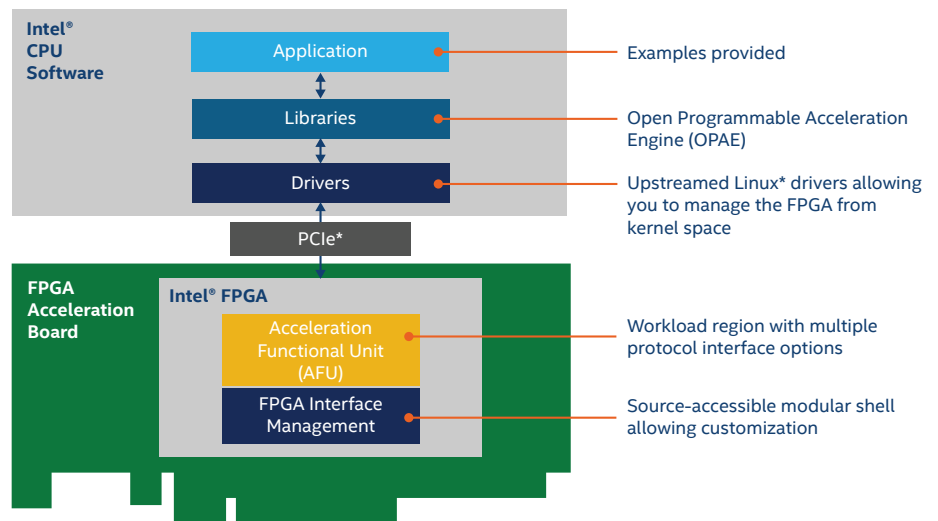
Standardization



Wide-Range of Solutions

### Eases Custom Acceleration Platform Development

#### Intel OFS Block Diagram



Intel® Open FPGA Stack (Intel® OFS) is a scalable, source-accessible hardware and software infrastructure that addresses the challenges associated with designing FPGA-based acceleration platform solutions for software, hardware, and application developers. In addition, Intel OFS provides standard interfaces and application programming interfaces (APIs) to accelerate development and speed workload deployment. Intel developed Intel OFS to enable third parties and customers to use this common infrastructure and tap into the growing ecosystem of workloads. Intel OFS is already in use by Intel and selected third-party platforms featuring our Intel® Stratix® 10 FPGA, Intel® Agilex™ FPGA, and future Intel® FPGA families.

### How Does Intel® Open FPGA Stack Make My Project Easier?

Intel OFS satisfies many of the pain points for hardware, software, and application developers, including modular and composable code from which to develop the FPGA design ('take and tailor'), open sourced and upstreamed code to the Linux\* kernel enabling open-source distribution vendors to provide native support and greater portability of applications across Intel, third parties, and proprietary Intel-OFS platforms.



### Board Developers

Use the source-accessible, modular infrastructure to quickly create application specific FPGA Interface Managers (FIM) tailored to the differentiated needs of their boards and target workloads.



### Software Developers

Leverage the OPAE software development kit, libraries, and APIs along with the upstreamed and fully open-sourced kernel drivers that target the FIM and accelerate integration into common application frameworks.



### Application Developers

Tap into a proven infrastructure and growing ecosystem to achieve greater portability and return on investment for their workloads across a growing number of Intel® OFS-based platforms.

## Open Source Methodology

All Intel OFS hardware and software code has been developed using an open source development methodology resulting in code organized and delivered through git repositories. We refer to our model as being source-accessible since users are granted access to source code in the git repositories. Technical documentation is co-located with the code itself.

Intel will soon begin to allow users to submit code contributions back from users who wish to share with the Intel OFS community. This will enable the Intel OFS infrastructure to grow and be enriched faster than Intel could do on its own.

## Get Started

For more details on Intel OFS or to request for code access, visit our website at: [www.intel.com/ofs](http://www.intel.com/ofs)



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