



# SUITE

## CONNECT BUSINESS APPLICATIONS WITH FPGA TECHNOLOGY

### BUSINESS CONTEXT

Leveraging the benefits of FPGA technology in business applications in the data center and cloud services requires bridging the gap between the traditional bare-metal use of FPGAs and modern software stacks.

### APPLICATION AREAS

- End-to-end business processes
- Database applications
- Big Data analytics, machine learning
- Internet-of-Things

### XELERA SUITE MAIN FEATURES AND VALUE CONTRIBUTION

A middleware providing applications a clean, hardware-agnostic interface to FPGA platforms in the data center and the cloud:

- Containerized accelerators: Providing the ability to leverage existing technology for workload deployment, life-cycle management, virtualization and open infrastructure
- Enabling “as-a-service consumption”: Ensuring cost efficiency
- Failure detection, reporting and recovery: Ensuring safe accelerator operation
- Platform independence: Avoiding lock-in
- Scale-up and scale-out capabilities: Scaling performance according to the application demand
- Composable architecture: Adding security, data compression and load balancing functionality when required
- Live performance monitoring dashboards: Enhanced data center operations management

### BENEFITS

- Seamless integration of FPGA infrastructure into existing applications and software stacks
- Safe, plug-and-play use of FPGA accelerators in the data center and in the cloud

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**PREDICT**

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**SUITE**

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**ANALYTICS**

X E L E R A  
**DB**

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**NET**

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