Board & System Development

![Dream Chip logo]

Dream Chip Technologies offers the full portfolio of electronic development, certification and production. We will meet your requirements from a turnkey product, down to a joint development with our experienced team.

- Capture and analysis of requirements
- Definition of solutions, architecture and implementation
  - (mixed systems: HW, FPGA, SW)
- Schematic entry
- HDI PCB design
- 3D M-CAD
- Board bring up
  - (Test, Integration of Software and FPGA)
- Sample Boards
- Certifications (CE, FCC and more)
- Support for mass production

High-Speed Designs

- DDR2, DDR3, DDR4
- LVDS
- USB 3.0
- 3G SDI, CoaxPress, CameraLink
- SATA/SAS
- Ethernet 10G
- PCIe

We are working with latest Altium Designer (ECAD) and Space Claim (MCAD).
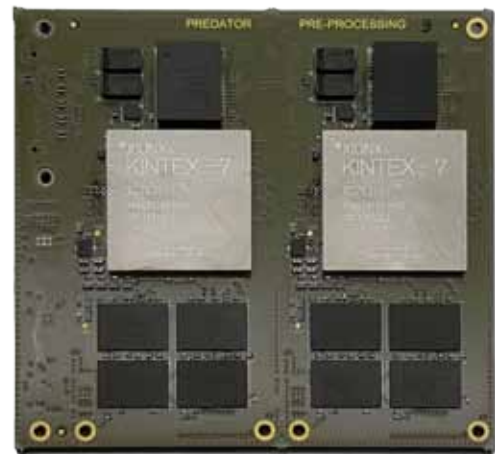
Project Examples:

Arria 10 SoM development board

- Arria 10 SoC FPGA
- DDR4, 64bit @ 1200 MHz
- Interfaces:
  - PCIe Gen3 x4
  - 10 Gbit/s Ethernet
  - DisplayPort 4 Lane In/Out
  - FMC Connector for LVDS/GPIO
  - 2x USB, RJ-45
  - Integrated USB Blaster II

Camera pre-processing board for 4x 4K resolution

- Kintex-7 FPGA
- DDR3, 64bit @ 1600 MHz, 2 Gbyte
- SPI Flash for FPGA config. 128 MB
- Power Supply

LTE Video Encoder

SDI Image Processor

Laser Control Module

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