

A Partnership

Cantech Informatics, in partnership with Electra IC, is your Hardware & Software Innovation Partner — delivering expertise in semiconductor design, system software, and compilers, and a proud member of the CHERI Alliance.

ASIC

Digital IC Frontend and Backend
Design Services, including FPGA
Prototyping for IC Validation

EMBEDDED SOFTWARE

Multi-Core ARM/DSP
Heterogeneous Architectures

ADVANCED VERIFICATION

Providing IC Design
Verification Services using
VHDL/SystemVerilog/UVM

FPGA

AMD Adaptive Computing
Partner, Elite

IP CORES

Avionic,
Cryptography,
Telecom

PCB

Circuit Board Design

TRAININGS

More than 150 different
trainings Doulos Certified
Training Partner

FUNCTIONAL SAFETY CONSULTANCY

DO-254, DO-178, EN-50129, ISO-26262

EIC ACADEMY

State of the Art
Recruitment Programme



EIC ACADEMY
Engineer Incubation Center

DIGITAL IP CORES

ELECTRA IC is your Design IP Solution Partner, offering a comprehensive Design IP Core portfolio, in the field of avionics, telecommunications, cryptography.

Avionic IP Cores

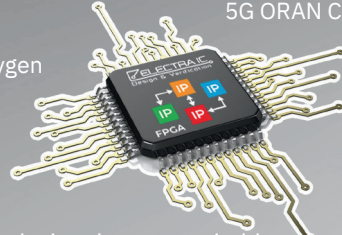
- MIL-STD-1553
- ARINC 664 End System
- ARINC 664 Switch
- ARINC 429

Cryptography IP Cores

- AES / AES GCM
- DRBG
- ECDSA
- RSA / RSA Keygen
- SHA3
- TRNG

Telecom IP Cores

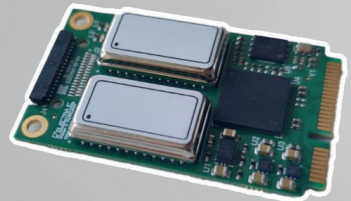
- PRACH IP Suite -
5G ORAN Compatible



ELECTRONIC BOARDS

Starting from the technical requirements, we can design the most suitable, cost-effective, and high-performance electronic cards with complex SoC FGPAs. We can also design the SoC FPGA functionality and even make it functional safety compliant like DO-254 compliant.

- BitFlex-SPB-A7 and BitFlex-VPX Series
- MIL-STD-1553 Board
- ARINC664 Board Mini
- PCIe FPGA Boards EIC
- Charge Controller
- Flexy FPGA Board
- FPGA-Based RF Control Board
- 3U-VPX Modules



ELECTRONIC HARDWARE & EMBEDDED SOFTWARE

Embedded systems and software development customized for special needs.

- Switching Box for Radar Systems
- Handle Controller
- 3U-VPX & 6U-VPX Open Frame Development Chassis
- Customized 3U-VPX Backplanes
- ARINC664 End System & Switch Equipment



TRAININGS

ELECTRA IC is a Doulos Certified Training Partner, a world-leading training services company. More than 150 different training courses, particularly AMD Xilinx, VHDL, SystemVerilog, UVM, SystemC, ARM, Embedded Linux, Embedded Software, and Deep Learning, are held in fully equipped, unique training rooms.