Introduction

FPGA Company is a specialist for FPGA and hardware design services.

We design customised analogue and digital hardware such as low-noise amplifiers, DC-DC and AC-DC power supplies, high-voltage electronics and high-speed digital circuits. At the same time we optimise our designs for low cost, easy testing and high yield rates in production and have experience with international safety and medical standards like EN60601, EN60508 and EN60950.

Competences

- FPGA designs (Xilinx / Altera / Lattice)
- Self-checking testbenches with maximum coverage
- High-voltage and high-current designs
- Safety relevant applications according to EN60508
- Medical applications according to EN60601
- Thermal optimisation
- Yield and cost optimisation
- Transformer and inductor designs

Reference Projects

- 4 kV Pockels cell driver
- Piezo driver
- LED driver
- UPS and battery charger
- FPGA based multi-level inverter emulator
- FPGA based counter module (SIL2/3)
- Laser energy meter

Contact us

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fpga.company
fpga & hardware design services.

Reference clients

ABB | bachmann. | emHelp | ziemer S OPHTHALMOLOGY

High-efficiency low-cost, low-size DC-DC converter

Design for high MTBF (high-ripple, long life capacitors)

Low-noise strain-gage amplifier stage

Customised flyback converter design according to EN60950 / EN60601

Design for manufacturing: Flying probe and ICT testing

High-voltage output power stage

Reinforced Isolation according to EN60950 / EN60601 (Creepage / Clearance)

ARM Cortex microcontroller system

USB 2.0 Interface

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