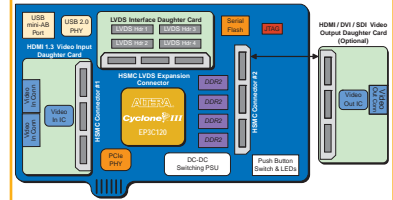


CONCEPT

The major task in identifying a product **concept** is to complete a Requirement Document that outlines product specifications, risks, and development timelines.

- Architectural/system design
- Hardware/software partitioning
- Performance/cost/power trade-offs
- Performance / Time-to-market objectives
- Specification generation
- Risk analysis & Project schedule timeline
- Production cost analysis
- Development cost estimates
- Test plan generation
- Technical proposal



HARDWARE TECHNOLOGIES

Our key areas of **hardware design capability** include:

Video IP Cores:

- Video capture, processing and conversion
- JPEG 2000
- HDMI, DVI, SDI, Video LVDS SerDes

Processor:

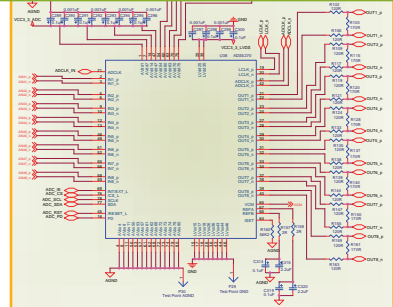
- Power PC, x86, ARM,
- Nios SoC

Memory IP Cores:

- Avalon & Streaming Multi-port SDR, DDR, DDR2, Mobile DDR, QDR

Interface IP Cores:

- I2C, SPI, PWM
- PCI, PCI-X, PCI Express
- USB, Ethernet, HDLC



Our key areas of **hardware expertise** include:

FPGA Development

- RTL design/development (Verilog/VHDL)
- IP Integration
- IP Core simulation, test and validation
- Prototype development
- In-circuit design validation
- Regulatory compliance certifications

Board Development

- Schematic capture
- High-speed PCB design/layout
- Signal integrity analysis
- Design for manufacturing & testing
- Packaging
- Quick-turn prototypes



SOFTWARE TECHNOLOGIES

Our key areas of **software design capability** include:

- Device driver / firmware development
- Embedded systems programming
- Systems integration
- BSPs & Platform porting
- API development
- Software design and consulting

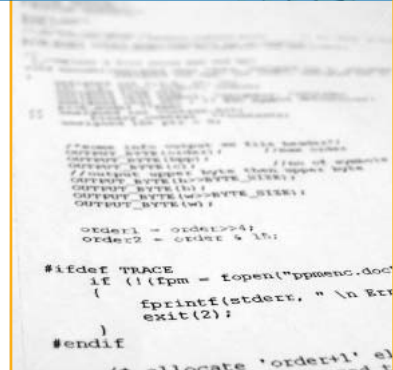
Microtronix specializes in operating systems and communication protocol support.

Software Development

- Linux kernel & driver development
- Applications: Linux, Windows and GUI
- Documentation

Design Integration and Test

- Board Support Packages
- Design Verification Tests
- Device Drivers: PCI, PCIe, Ethernet, USB, Serial, Video etc.



PROTOTYPE

Hardware and software engineers work hand-in-hand to develop prototype boards and systems to meet time-to-market objectives.

- Custom board design and manufacture
- Custom variants of Microtronix products
- Design validation testing
- Engineering documentation
- Product certifications
- Enclosures
- Electrical and functional testing
- Prototype and pilot runs



SUPPORT

Microtronix fully supports all products and services through a variety of channels including; on-line FAQs, email, phone and on-site at the customer's premises. Hourly support contracts offered are: Standard and a Platinum first-in-line level of service. Annual Technical Support and Maintenance Contracts are also available.



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