

Embedded Controller Design Services System on Chip (SoC)

CUSTOMER INFORMATION

Design House for Complete ARM-Based SoC-Solutions & Assemblies

MAZeT GmbH acquired certification under the program (for System-on-Chip solutions).

*"ARM Technology Access Program" (ATAP) to
"ARM Approved Design Center"*



MAZeT's customers are able to profit from an expanded portfolio of services ranging from the design and manufacturing of complete systems and assemblies (FPGA / ASIC, hardware, software) to commercial product delivery and including even ARM SoC-solutions from now on.

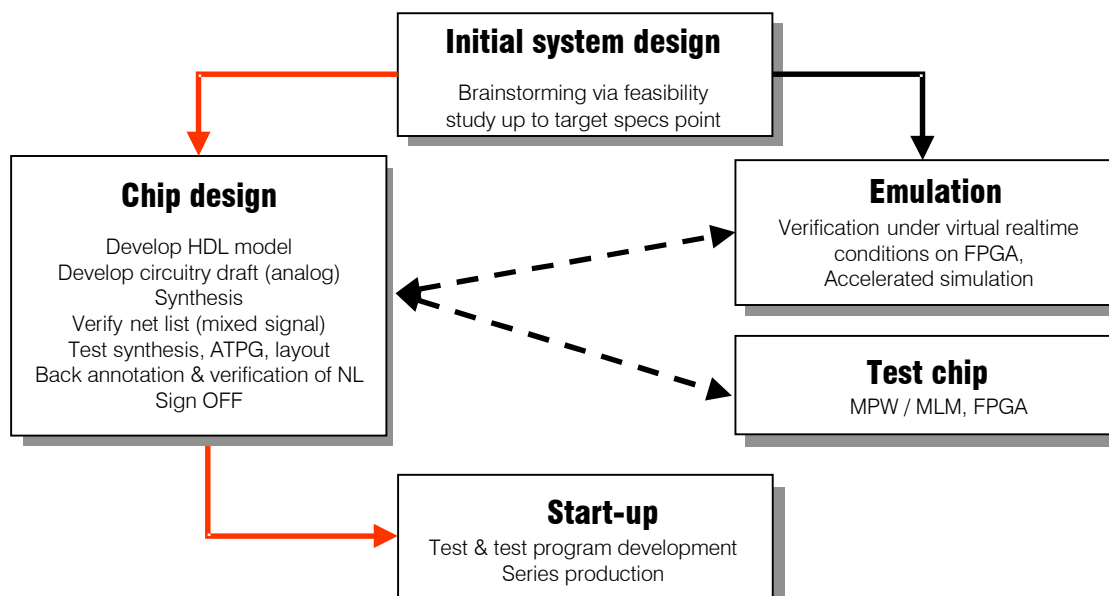
ASIC - Hardware - Software – Manufacturing

MAZeT System Integrator

- ▶ Complete SoC-design
- ▶ System verification & validation
- ▶ IP-core development & system integration

Design Services

- ▶ Consultancy, design work, development to manufacturability
- ▶ FPGA/ASIC design (analog, mixed signal & digital)
- ▶ Hardware & software design

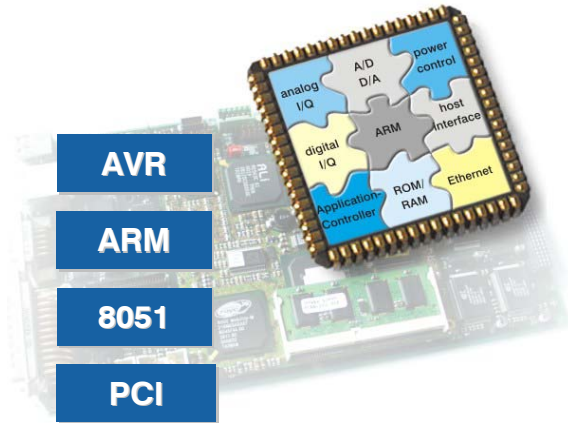


MAZeT has been certified under *DIN EN ISO 9001:2000*. It uses a standardized design flow. A multiplicity of entry and exit points is available for customers to choose from. Which entry and exit points are best suited, depends on the customer's requested package of MAZeT services.

Embedded Controller Design Services - System on Chip (SoC)

System on Chip (SoC) Tasks

- ▶ System verification C/C++
- ▶ RTL design μ Controller core (AVR, 8051, ARM)
 - Standard peripherals
 - Custom-designed peripherals
- ▶ Mixed test bench (VHDL, Verilog, C-models)
- ▶ Hardware & software co-verification
- ▶ Emulation (debugging, software design)
- ▶ FPGA prototyping, evaluation platform
- ▶ Series production & delivery



Emulation & Evaluation

▶ *ISYTEC emulator EMU1*

MAZeT uses an EMU1 emulation system to verify SoC designs.

To give you an example: the emulator allows three million gate functions to be optimally verified in a test run lasting approximately one hour with subsequent evaluation. For comparison: the time required to perform CAD-supported simulation of the same amount of gates is about five days!

▶ *ARM integrator suite*

ARM-core-based SoCs are emulated with the help of an "Integrator" emulation system from ARM.

This system makes it possible to emulate different types of ARM-cores with customized peripherals.

▶ *Custom-made FPGA boards*

Depending on Customers' request specifications and task definitions, MAZeT designs specifically adapted FPGA boards with a functionality that is equivalent to that of the final ASIC. These boards can be tested under real-life conditions in a given final application environment (e.g. at Customer's facility).

For more information please visit our web site at <http://www.MAZeT.de>

or contact our sales offices!