

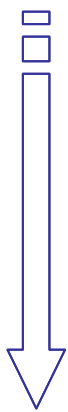
# ASIC / ASSP / FPGA & Sensor Design

CUSTOMER INFORMATION

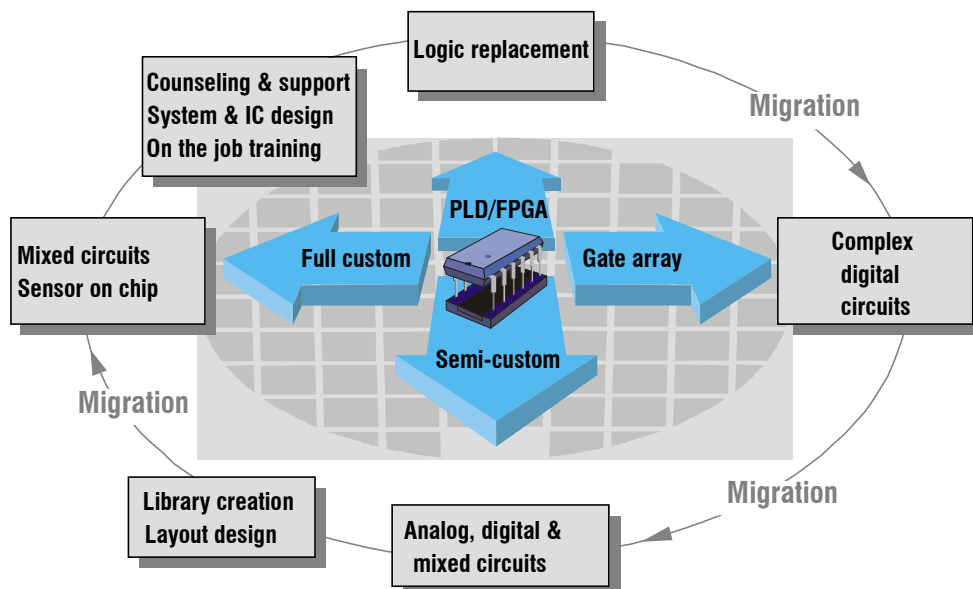
## ASIC Turn-Key-Design

As a system provider of complete solutions, MAZeT does not restrict itself to ASIC integration services, but also carries out necessary hardware developments (e.g. evaluation boards), including microcontroller programming services – everything from a single source.

### Custom-designed microcircuits



- ▶ Technology & feasibility studies
- ▶ Detailed project planning & specifications
- ▶ Initial system design, synthesized circuitry diagram & system optimization
- ▶ Development of modular function units (analog/digital cells)
- ▶ Implementation of embedded controller & bus systems
- ▶ Development of chip layout & test, creation of test programs
- ▶ Fast prototyping (FPGA, MPW & MLM)
- ▶ Organization of prototyping & commercial production
- ▶ Support in testing & start-up



## Guaranteed Quality for ASIC designs

We guarantee transparency in all design phases and quality assurance through ISO-compliant work procedures and certified suppliers for quality-conforming performance.

## ASIC / ASSP / FPGA & Sensor Design

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### Competencies

▶ **System on chip solutions**

8051, AVR, ARM, low power chips

▶ **Mixed signal ASICs for sensor signal processing**

Signal amplifiers, converters, low power chips

▶ **Bus controller solutions**

Interbus, Ethernet, EnDat, SSI, etc.

▶ **Optical sensors**

Colour & edge sensors

Detectors & converters

Photo diodes (PIN/CMOS/BiCMOS)

Signal processing

▶ **Redesign & reengineering of ASICs to be phased out**

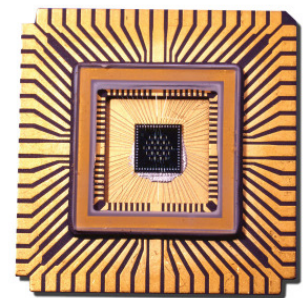
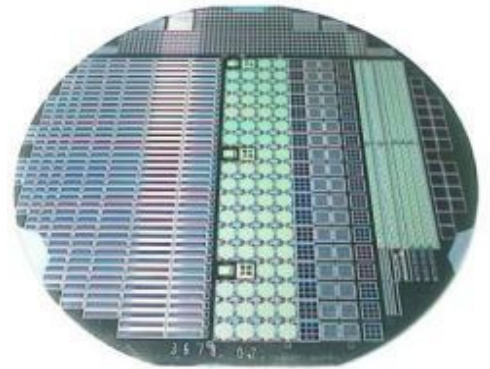
Original ASIC analysis

FPGA/ASIC-based prototyping

Development of verification platform

Equivalence check "old ASIC" ↔ "new ASIC"

Commercial delivery



From IC to board & software – from initial draft to silicon

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

or contact our sales offices!