

# High-Availability Cyber-Physical-System for SmartGrids

Zero-loss switchover for network redundancy in combination with time and frequency synchronization over networks is a key requirement for energy applications. SoC-e 's unique IP Core solutions for Xilinx FPGAs and SoCs provide lowest latency at low resource consumption with solutions for HSR (High Availability Seamless Ring), PRP (Parallel Redundancy Protocol) as well as for IEEE1588-2008 .

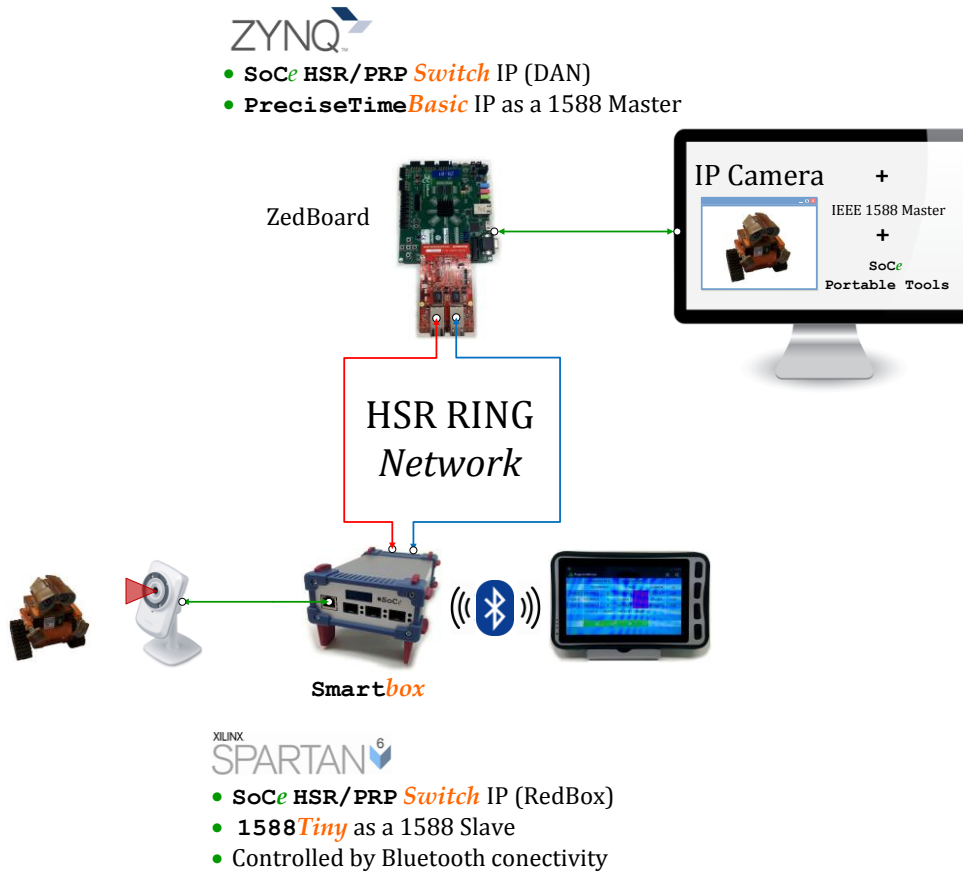
The demo shows the redundant network communication and synchronizations between a Zedboard and a SMARTbox with embedded Bluetooth connectivity for monitoring and maintenance.

## Target Applications

- Energy substations
- Industrial communication
- Industrial Ethernet switches

## Key Benefits

- Lowest footprint and power
- Low latency



## Technical Specifications

- Pure hardware implementation, accelerated by design
- Plug-fest and field proven

## Solutions Availability

- Available Now
- Contact: Dr. Amando Astarloa, SoC-e (info@soc-e.com)
- Xilinx Contact: Michael.Zapke@xilinx.com

 **SoC-e**  
System-on-Chip *engineering*