

# ZigBee Smart Sensors Network

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## **Abstract**

*This paper presents the design of an embedded system for the assistance of persons with handicaps, implemented into the Digilent Spartan 3E Board. The unit is defined in VHDL, and it targets a Xilinx Spartan-3E FPGA. Some of the modules, UART controller, port\_selector are generic and can be easily reused without changes in other designs. The circuit was designed on a Windows XP PC using Xilinx ISE8.2.03i CAD tool and Cadence Orcad tool.*