

Workshop : Designing with Spartan and Kintex Gen 2 UltraScale+ (French Language)

GENERAL OBJECTIVE OF THE TRAINING

Learn about the new features of the AMD Spartan and Kintex Gen 2 UltraScale+™ FPGA architectures (DDR5 controller, PCIe Gen4, etc.)

COURSE DURATION



1 day - 7 hours

CONCERNED PUBLIC

- Technicians and Engineers in Digital Electronics
- All our training courses are given at a distance and are accessible to people with reduced mobility.
- People with disabilities may have special training needs. Our partner AGEFIPH accompanies us to implement the necessary adaptations related to your disability. Don't hesitate to discuss your requirements.



PREREQUISITES

- Any Xilinx device architecture class
- Familiarity with the Vivado® Design Suite

NOTES

- Release date: 18/11/2025

TEACHING STAFF

- **William Duluc, Electronics and Telecoms Engineer, AMD Expert since 2009 and AMD Trainer since 2017 :**
 - Expert AMD FPGA - Language VHDL/Verilog - RTL Design
 - Expert AMD SoC & MPSoC - Language C/C++ - System Design
 - Expert DSP & AMD RFSoc - HLS - Matlab - Design DSP RF
 - Expert AMD Versal - AI Engines - Heterogenous System Architect

TARGET OBJECTIVES AND SKILLS

- After completing this workshop, you will have the necessary skills to:
 - Identify the various memory and computing resources available on the chip
 - Describe advanced I/O capabilities for various connectivity needs
 - Identify high-speed transceivers for use in applications such as PCIe® Gen4
 - Explain the configuration process

COURSE CONTENT

DAY 1

- Introduction to the UltraScale+™ Families {Lecture}
- Introduction to the Spartan™ and Kintex Gen 2 UltraScale+™

- Architectures {Lecture}
- Memory Resources {Lecture}
- DSP Resources {Lecture}
- I/O Resources {Lecture}
- Transceivers and PCIe {Lecture}
- Configuration and Security {Lecture}

TEACHING METHODS

- **Inter-company online training :**
 - Fast Internet connection, webcam, headset
 - Presentation by Webex by Cisco



RECOMMENDED COMPUTER HARDWARE

- **Inter-company online training :**
 - Recent computer OS Linux or Windows 64-bits
 - Fast Internet, webcam, headset
 - Software tool WebEx Cisco

TECHNICAL, EDUCATIONAL, ADMINISTRATIVE AND FINANCIAL CONTACT

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