

Your kit is based on a standard hardware architecture that includes a Xilinx Zynq-7000 XC7Z020 All Programmable System on Chip, with an Artix-7 FPGA and a 667 MHz dual-core ARM Cortex-A9 processor running the NI Linux Real-Time (32 bit) distribution, and I/O available through the daughter card. The system you are developing in this tutorial will include both the embedded target and your Windows PC. It can be programmed using a single development tool chain, LabVIEW, or you can program the processor with C/C++; this kit includes the necessary cross-compiler and the Eclipse IDE. Since LabVIEW includes a cross-compiler, it can be used to develop applications that will run on a floating point processor, an FPGA target, and a Windows PC.