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technology products like network devices, consumer appliances, automation systems, automobiles and other embedded systems. The Cortex-A Processors are again divided into high performance, high efficiency and ultra-high efficiency type processors. Each sub division has several types of processor cores. Where to begin? It is advised by many embedded system developers that LPC214X Series is the best processor to begin ARM based application development. In this series of tutorials, we will be dealing with LPC2148 Processor. It is an ARM7 based processor with ARM7TDMI-S Processor core. It is based on ARMv4 architecture and the significant changes from its previous architecture is the introduction of the 16-bit Thumb instructions. The development boards and the development toolchain (software) for LPC2148 processors are easily available. Keil is software development environment for ARM processors. It includes the complete development toolchain like integrated development environment (IDE), compiler, debugger and simulator.