

UM1727 User manual

Getting started with STM32 Nucleo board software development tools

Introduction

The STM32 Nucleo board (NUCLEO-F030R8, NUCLEO-F072RB, NUCLEO-F103RB, NUCLEO-F302R8, NUCLEO-F401RE, NUCLEO-L152RE) is a low-cost and easy-to-use development platform used to quickly evaluate and start a development with an STM32 microcontroller in LQFP64 package.

This document describes the software environment and development recommendations required to build an application around the STM32 Nucleo board. It provides guidelines to beginners on how to build and run a sample application and allows them to create and build their own application. It has the following structure:

- The first chapter presents software and hardware requirements (some toolchains supporting the STM32 families, ST-LINK/V2 installation and firmware package presentation).
- The second chapter provides step by step guideline on how to execute and debug an application example using some toolchains: IAR Embedded Workbench® for ARM® (EWARM) by IAR systems® Microcontroller Development Kit for ARM® (MDK-ARM) by Keil® TrueSTUDIO® by Atollic®.

Although this manual cannot cover all the topics relevant to software development environments, it demonstrates the first basic steps necessary to get started with the compilers/debuggers and offers links to the documents needed to fully understand every single step.



Figure 1. Nucleo development tools

Getting Started With Stm32 Nucleo Development Amisis

Dogan Ibrahim

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