STM32L4 Seminar

EMEA MCU Marketing and FAE Team

STM32 L4

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Seminar objectives

- Present the new STM32L4 Cortex-M4® family

- Get familiar with the features and capabilities

- Show performance in both simple and complex tasks

- Get familiar with new peripherals

- Practice through Hands-On

Agenda morning

- 8:30   Tools installation checking

- 9:00   Marketing introduction

- 9:45   STM32L4 System architecture and overview

- 10:15   Break

- 10:30 System operating modes in real application scenarios

- 12:00   Lunch

Agenda - afternoon

- 13:00 New peripherals and BOM reduction

- 14:00 Putting all together – Hands-On – Part I

- 14:45 Break

- 15:00 Putting all together – Hands-On – Part II

- 16:00 Tips and Tricks for app design
- 17:00 Session end, Q&A

STM32 L4

You will get out of the training with:

- A good understanding of the new STM32L4 main features & tools

- The skills to make your HW and FW design using ST ecosystem

- A Discovery Board to start your development

Prerequisites

- STM32L4 discovery kit
  - **provided free of charge by ST**
- IAR 7.4x in full / evaluation version
  - 5 days full version provided free of charge by ST
- 1x USB micro, 1x USB mini cable
- Java + .NET installed
- STM32CubeMX 4.11.0
- STM32CubeL4 HAL V1.1.1 from STM32CubeMX
- Multimeter with uA/mA range with wires to connect to header
  - we will measure consumptions down to ~40nA
- Headphones (3.5mm jack)

- Extract the file STM32L4_workshop.zip to C:\

- It includes
    - Documentation
    - Hands-On projects Examples
    - Slides presentations

- If you don't have installed IAR 7.4x then copy also \PC_tools\IAR_740\

- Pass it to your neighbor, please

IAR installation

- ## We'll need full version of IAR
  - Valid full license
  - Evaluation license 30-days
  - Temporary training license

- ## No valid installation?
  - \PC_Tools\IAR_740\EWARM-CD-7407-9865.exe

- IAR → Help → License Manager select License → Offline Activation → Use an activation response file from IAR Systems

- Browse to PC_tools\IAR_740\ActivationResponse.txt. Then complete the dialog sequence.

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STM32CubeMX

- \PC_Tools\STM32CubeMX\SetupSTM32CubeMX-4.11.0.exe

ST-link Utility

\PC_Tools\ST link utility\STM32 ST-LINK Utility_v3.7.0.exe

Termite Serial Port terminal SW

\PC_Tools\Termite\termite-3.2.exe

www.st.com/stm32l4