

# STM32L4 Seminar

EMEA MCU Marketing and FAE Team



# Seminar objectives

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- 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

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- 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

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- 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



## 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 7

- 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  $<1\mu\text{A}$
- 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



- 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.





## 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](http://www.st.com/stm32l4)