Hello, and welcome to the STM32H7 training session.
This session is organized to provide you with the most important information to ensure that you can develop your application as easily as possible. You will find a technical description of all the STM32H7 modules including peripherals and development tools organized into specific sections: system, memory, security, analog, peripherals, watchdog and timers and ecosystem. You can browse each section separately and learn about each module in the order of your choice and at your convenience. This session also allows you to search directly for a keyword and you will have a direct access to the sections covering this information.
Now, let’s take a closer look at the STM32H7 series of high-performance microcontrollers.
The ARM® Cortex®-M7-based STM32H7 MCU series leverages ST’s Non-Volatile-Memory (NVM) technology to reach the industry’s highest benchmark scores for Cortex-M-based microcontrollers with up to 1327 DMIPS executing from embedded Flash memory. The STM32H7 series of very high-performance MCUs come with an ARM® Cortex®-M7 core and optional ARM® Cortex®-M4 core for a dual-core. It expands the STM32 portfolio with:

- A flexible architecture for industrial, security and AI application.
- Advanced security features.

And a rich ecosystem to speed-up your design.
The STM32H7 series completes the Performance family of microcontrollers developed by STMicroelectronics. It delivers 2024 CoreMark as performance taking advantage of an L1 cache, a double-precision floating-point unit and ST’s adaptive real-time memory accelerator. The optional Cortex-M4 for dual core delivers 800 CoreMark at 240MHz.
The STM32H7 series is optimized to offer the best performance, extended with new peripherals to support the widest range of use cases thanks to a powerful architecture to:

- Display a nice graphic
- Transfer data efficiently across peripherals
- Generate complex wave forms
- And manage advanced security
Now let’s get started with the training. Do not hesitate to follow the events and news about this product on our website at www.st.com/stm32h7. Enjoy!