Hello, and welcome to this presentation of the STM32L4 ARM Core.

Cortex-M processors

- **Forget traditional 8/16/32-bit classifications**
  - Seamless architecture across all applications
  - Every product optimized for ultra low power and ease of use

Cortex-M0 & M0+	Cortex-M3	Cortex-M4
"8/16-bit" applications	"16/32-bit" applications	"32-bit/DSC" applications

Binary and tool compatible

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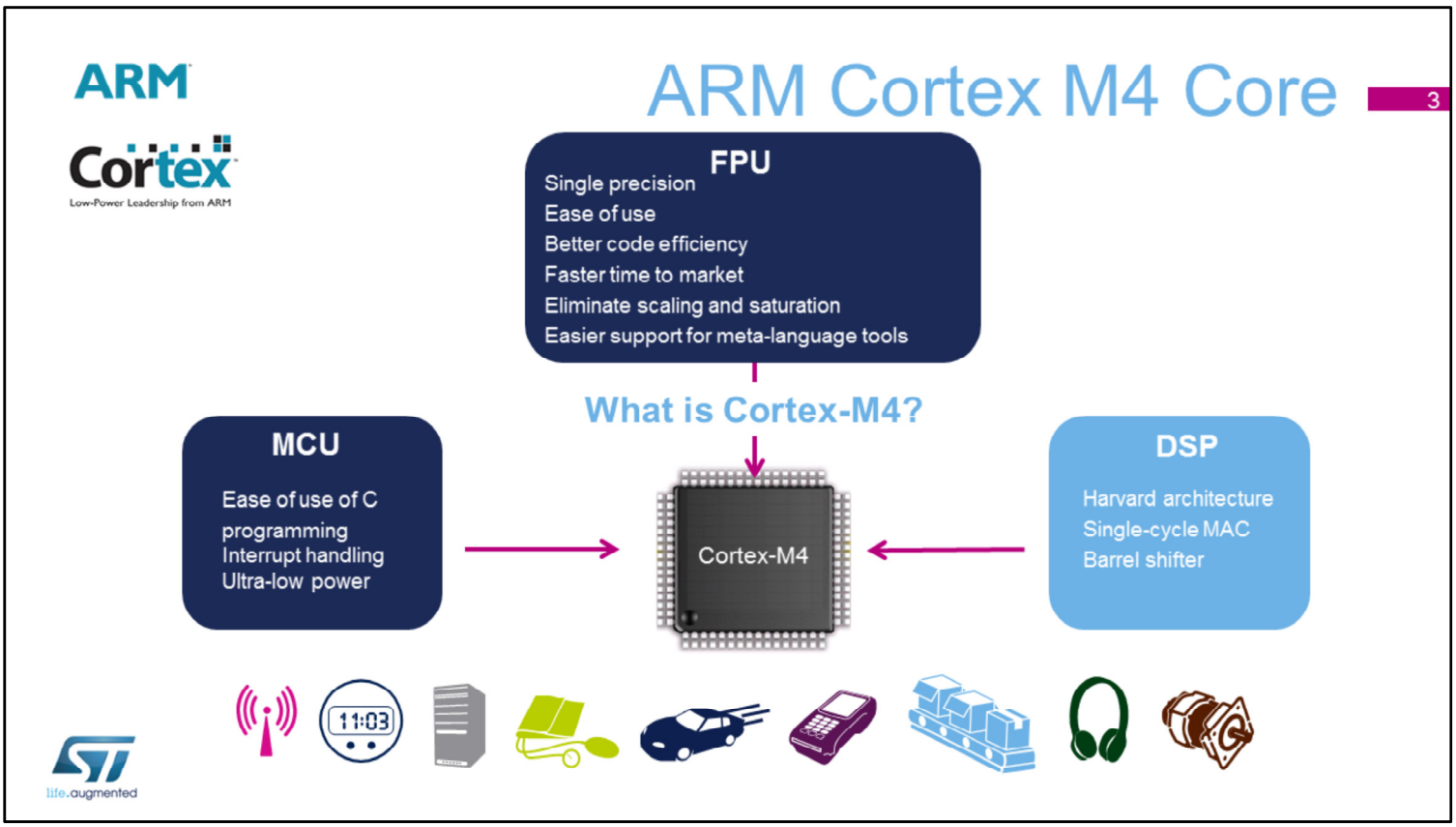
STM32L4 integrates a Cortex M4 core from ARM in order to benefit from the powerful performance of the 32-bit processor architecture and particularly of the high level of performance in low power consumption.



Based on the ARM Cortex-M4 core, the STM32 L4 series combines the control performances of the Cortex-M3 core and the DSP capability of a single cycle DSP MAC for data processing. In addition, the STM32L4 embeds a single precision FPU.

References

- For more details, please refer to ARM website at the following link:
  - http://www.arm.com/products/processors/cortex-m/cortex-m4-processor.php

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For more details, please refer to ARM website in which you will find all information about the core Cortex-M4.