

# EXAMPLE

## Introduction

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## Related Documents

Available from [repository name] (<https://www.github.com/repo-name>):

- Technical reference
- Hardware manual
- Design review
- Test criteria and evaluation
- The Holy Bible

## Acknowledgements

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# Example System Documentation

## Document Title

2025 Example Organisation

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## Introduction

Document descriptions at 10,000 ft [1] and 30,000 ft [1], [2], [3].

# 1 Section

## 1.1 Subsection

### 1.1.1 Subsubsection

### 1.1.2 Subsubsection

### 1.1.3 Subsubsection

### 1.1.4 Subsubsection

## 1.2 Subsection

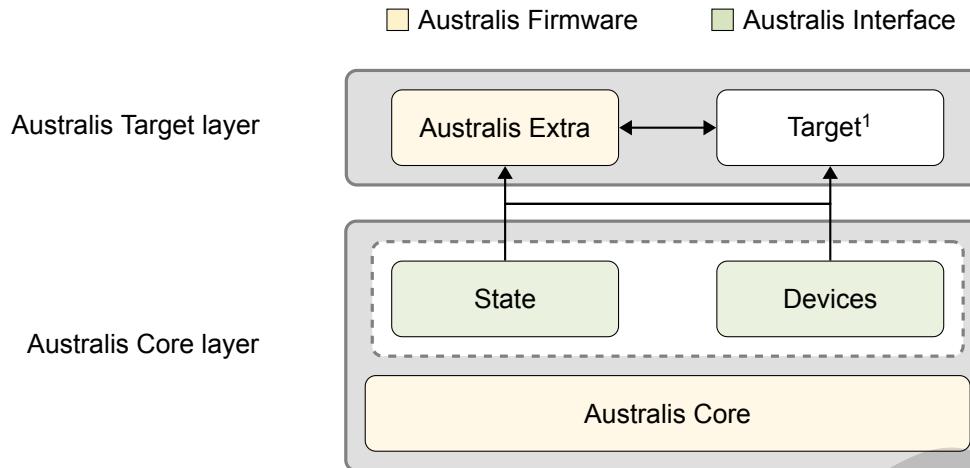
## 1.3 Subsection

## 1.4 Subsection

## 1.5 Subsection

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## 2 Firmware Architecture



<sup>1</sup> Target component is implementation specific.

Figure 2.1: Australis Firmware system architecture

## 3 Memory and Bus Architecture

### 3.1 System Architecture

In STM32F405xx/07xx and STM32F415xx/17xx, the main system consists of 32-bit multilayer AHB bus matrix that interconnects:

- Eight masters:
  - Cortex®-M4 with FPU core I-bus, D-bus, and S-bus
  - DMA1 memory bus
  - DMA2 memory bus
  - DMA2 peripheral bus
  - Ethernet DMA bus
  - USB OTG HS DMA bus
- Seven slaves:
  - Internal flash memory ICode bus
  - Internal flash memory DCode bus
  - Main internal SRAM1 (112 KB)
  - Auxiliary internal SRAM2 (16 KB)
  - AHB1 peripherals including AHB to APB bridges and APB peripherals
  - AHB2 peripherals
  - FSMC

The bus matrix provides access from a master to a slave, enabling concurrent access and efficient operation even when several high-speed peripherals work simultaneously. The 64-Kbyte CCM (core coupled memory) data RAM is not part of the bus matrix and can be accessed only through the CPU. This architecture is shown in Figure 1.

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(totally not stolen from RM0090)

## 4 References

- [1] M. Ricci, *How to tame an avionics engineer*. Enguhneering-Blog. Accessed: Dec. 10, 2024. [Online]. Available: <https://silkroad.market>.
- [2] B. Alexander, *How not to land a rocket*. RIP Omega. Accessed: Aug. 24, 2024. [Online]. Available: <https://whitecliffs.gg>.
- [3] H. Begg, “Leaving team chats,” *Journal of Absolute Bozos*, vol. 10, no. 4, pp. 1111–2222, Jan. 1970.

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## 5 Appendix

### Appendix A: Appendix Item

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**Appendix B: Appendix Item**

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