

## **Next Step**

FreeRTOS port to Tiva Cortex M4
Linker definition
10 ms data sampling
1000 ms data sampling
XCP Processing
Cortex M4 CAN driver integration
XCP Slave integration (focus on top use cases)
XCP Master Bring up

Performance evaluation of DAQ Cortex M4 Ethernet driver integration AUTOSAR Pointered method Optimization and correctness of meeting timing requirements

## References:

FreeRTOS mem footprint:

https://www.freertos.org/FAQMem.html#ROMUse

Fully Preemptive RTOS Concept of operation:

https://www.freertos.org/tutorial/solution2.html

FreeRTOS demo for TI products:

https://www.freertos.org/a00090.html#ARMv8-M

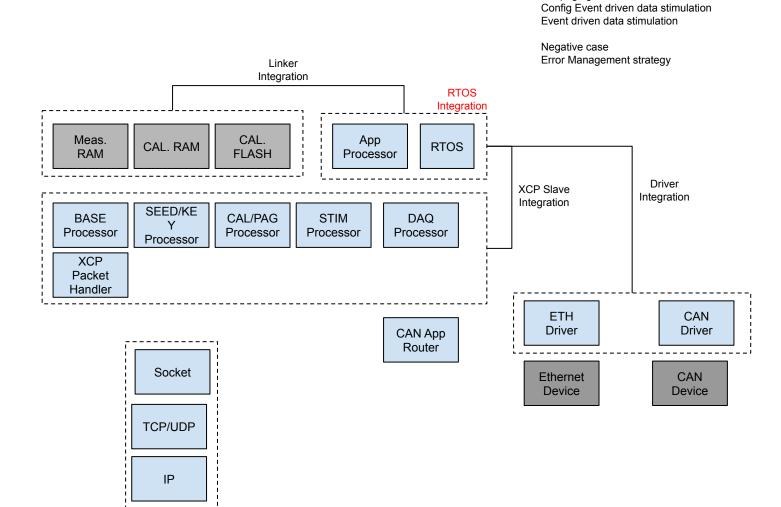
Porting or Modifying a FreeRTOS prj:

https://www.freertos.org/porting-a-freertos-demo-to-diffe

rent-hardware.html

M4F based TI HW:

https://www.ti.com/tool/EK-TM4C123GXL



Use cases Connect Read data Write data

Cal paging

Config Event driven data logging Event driven data logging